

lab15

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b <- read.table(file = "mm-second.x.zebrafish.tsv", col.names = c("qseqid", "sseqid", "pid", "length", "mismatch", "gapopen", "qstart", "qend"))  
  
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3	YP_220551.1	NP_059341.1	24.540	163	112	3	112	263
4	YP_220551.1	NP_059340.1	26.804	97	65	2	98	188
5	YP_220552.1	NP_059333.1	88.132	514	61	0	1	514
6	YP_220552.1	XP_021326074.1	31.818	66	32	2	427	482
7	YP_220552.1	NP_001373511.1	31.818	66	32	2	427	482
8	YP_220553.1	NP_059334.1	70.925	227	66	0	1	227
9	YP_220553.1	NP_001038725.1	28.571	70	46	2	15	84
10	YP_220553.1	XP_005161478.1	28.571	70	46	2	15	84
11	YP_220553.1	XP_021324580.1	28.571	70	46	2	15	84
12	YP_220554.1	XP_002665692.3	25.862	58	42	1	5	61
13	YP_220554.1	XP_021324264.1	25.862	58	42	1	5	61
14	YP_220554.1	XP_009290033.1	50.000	30	13	1	26	55
15	YP_220554.1	XP_005156656.1	37.931	29	17	1	34	61
16	YP_220554.1	NP_001007391.1	37.931	29	17	1	34	61
17	YP_220555.1	NP_059336.1	52.212	226	107	1	1	225
18	YP_220556.1	NP_059337.1	78.161	261	57	0	1	261
19	YP_220556.1	XP_021330598.1	37.838	37	23	0	3	39
20	YP_220556.1	NP_001139036.1	37.838	37	23	0	3	39
21	YP_220556.1	NP_001070643.1	36.111	36	19	1	173	208
22	YP_220557.1	NP_059338.1	61.207	116	44	1	1	115
23	YP_220558.1	NP_059339.1	53.061	98	46	0	1	98
24	YP_220558.1	NP_001002376.1	57.895	19	8	0	20	38
25	YP_220558.1	XP_005158565.1	57.895	19	8	0	20	38
26	YP_220558.1	XP_706537.4	31.373	51	25	2	40	80

27	YP_220559.1	NP_059340.1	62.582	457	170	1	1	456
28	YP_220559.1	NP_059341.1	23.039	204	146	6	106	306
29	YP_220559.1	NP_059332.1	32.432	111	59	6	198	304
30	YP_220559.1	XP_009301289.1	24.074	108	65	4	169	276
31	YP_220560.1	NP_059341.1	55.126	595	257	8	7	597
32	YP_220560.1	NP_059340.1	23.077	351	246	11	107	442
33	YP_220560.1	NP_059332.1	24.171	211	145	6	226	433
34	YP_220560.1	XP_017210528.1	26.087	69	44	1	365	433
35	YP_220560.1	NP_001159387.1	26.087	69	44	1	365	433
36	YP_220560.1	XP_021330470.1	30.645	62	38	2	164	223
37	YP_220560.1	XP_689554.6	35.417	48	28	1	554	598
38	YP_220561.1	NP_059342.1	37.143	140	72	3	1	127
39	YP_220561.1	NP_001038688.1	29.412	85	54	3	33	112
40	YP_220562.1	NP_059343.1	73.810	378	99	0	1	378
41	YP_220562.1	XP_021322416.1	28.704	108	60	4	223	315
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47	NP_904329.1	NP_059341.1	24.540	163	112	3	112	263
48	NP_904329.1	NP_059340.1	26.804	97	65	2	98	188
49	NP_904330.1	NP_059333.1	88.132	514	61	0	1	514
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52	NP_904331.1	NP_059334.1	70.925	227	66	0	1	227
53	NP_904331.1	NP_001038725.1	28.571	70	46	2	15	84
54	NP_904331.1	XP_005161478.1	28.571	70	46	2	15	84
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56	NP_904332.1	XP_002665692.3	25.862	58	42	1	5	61
57	NP_904332.1	XP_021324264.1	25.862	58	42	1	5	61
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59	NP_904332.1	XP_005156656.1	37.931	29	17	1	34	61
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61	NP_904333.1	NP_059336.1	52.212	226	107	1	1	225
62	NP_904334.1	NP_059337.1	78.161	261	57	0	1	261
63	NP_904334.1	XP_021330598.1	37.838	37	23	0	3	39
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66	NP_904335.1	NP_059338.1	61.207	116	44	1	1	115
67	NP_904336.1	NP_059339.1	53.061	98	46	0	1	98
68	NP_904336.1	NP_001002376.1	57.895	19	8	0	20	38
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72	NP_904337.1	NP_059341.1	23.039	204	146	6	106	306
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76	NP_904338.1	NP_059340.1	23.077	351	246	11	107	442
77	NP_904338.1	NP_059332.1	24.171	211	145	6	226	433
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93	NP_598866.1	NP_001003517.1	30.400	125	82	4	4	126
94	NP_598866.1	NP_001003517.1	30.645	62	41	2	53	113
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141	NP_598866.1	XP_005173719.1	24.409	127	81	3	121	232
142	NP_598866.1	XP_009294942.1	48.148	27	14	0	236	262
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144	NP_776134.1	NP_001038578.1	25.635	394	256	12	1	367
145	NP_776134.1	XP_698357.3	35.433	127	82	0	241	367
146	NP_776134.1	XP_021325116.1	31.667	120	79	2	231	347
147	NP_776134.1	XP_005174054.1	32.075	106	69	2	243	345
148	NP_776134.1	XP_009295448.1	32.787	122	78	3	219	336
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153	NP_776134.1	XP_021325358.1	30.612	98	65	2	243	337
154	NP_776134.1	XP_021325358.1	31.395	86	54	2	270	354
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156	NP_776134.1	XP_021325121.1	29.730	111	75	2	230	337
157	NP_776134.1	XP_021325120.1	29.730	111	75	2	230	337
158	NP_776134.1	XP_021330982.1	31.933	119	75	4	219	335
159	NP_776134.1	XP_009290119.1	30.303	99	66	2	243	338
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163	NP_776134.1	XP_005160238.1	27.559	127	86	3	217	337
164	NP_776134.1	XP_021333113.1	27.559	127	86	3	217	337
165	NP_776134.1	XP_017206561.2	33.333	81	53	1	267	346
166	NP_776134.1	XP_021333111.1	27.559	127	86	3	217	337
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168	NP_776134.1	XP_009290117.1	30.303	99	66	2	243	338
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172	NP_776134.1	XP_021325109.1	25.926	135	89	4	221	345
173	NP_776134.1	XP_021325106.1	25.926	135	89	4	221	345
174	NP_776134.1	XP_021325105.1	25.926	135	89	4	221	345
175	NP_776134.1	XP_021325110.1	25.926	135	89	4	221	345
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178	NP_776134.1	XP_021322154.1	32.283	127	74	6	219	338
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220	NP_001349069.1	XP_021331294.1	47.039	304	158	2	33	333
221	NP_001349069.1	XP_021331294.1	50.400	250	123	1	82	330
222	NP_001349069.1	XP_021331294.1	50.920	163	80	0	58	220
223	NP_001349069.1	XP_021331294.1	47.706	109	57	0	58	166
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240	NP_001349069.1	XP_021328508.1	54.054	259	119	0	58	316
241	NP_001349069.1	XP_021328508.1	49.281	278	141	0	38	315

242	NP_001349069.1	XP_021328508.1	52.326	258	123	0	58	315
243	NP_001349069.1	XP_021328508.1	50.775	258	127	0	58	315
244	NP_001349069.1	XP_021328508.1	51.550	258	125	0	58	315
245	NP_001349069.1	XP_021328508.1	52.564	234	111	0	82	315
246	NP_001349069.1	XP_021328508.1	52.814	231	109	0	58	288
247	NP_001349069.1	XP_021326559.1	53.488	258	120	0	58	315
248	NP_001349069.1	XP_021326559.1	54.198	262	120	0	58	319
249	NP_001349069.1	XP_021326559.1	51.825	274	131	1	58	330
250	NP_001349069.1	XP_021326559.1	52.191	251	120	0	65	315
251	NP_001349069.1	XP_021326559.1	52.093	215	103	0	58	272
252	NP_001349069.1	XP_021326559.1	57.857	140	59	0	176	315
253	NP_001349069.1	XP_021331301.1	53.817	262	121	0	58	319
254	NP_001349069.1	XP_021331301.1	54.440	259	118	0	58	316
255	NP_001349069.1	XP_021331301.1	53.488	258	120	0	58	315
256	NP_001349069.1	XP_021331301.1	51.550	258	125	0	58	315
257	NP_001349069.1	XP_021331301.1	51.709	234	113	0	82	315
258	NP_001349069.1	XP_021331301.1	52.000	175	84	0	58	232
259	NP_001349069.1	XP_021331368.1	52.273	264	126	0	50	313
260	NP_001349069.1	XP_021331368.1	52.326	258	123	0	58	315
261	NP_001349069.1	XP_021331368.1	49.057	265	135	0	46	310
262	NP_001349069.1	XP_021331368.1	50.391	256	127	0	58	313
263	NP_001349069.1	XP_021331368.1	52.049	244	117	0	70	313
264	NP_001349069.1	XP_021331368.1	47.232	271	143	0	46	316
265	NP_001349069.1	XP_021331368.1	47.761	201	105	0	58	258
266	NP_001349069.1	XP_021331368.1	50.000	162	81	0	154	315
267	NP_001349069.1	XP_021331448.1	53.817	262	121	0	58	319
268	NP_001349069.1	XP_021331448.1	53.488	258	120	0	58	315
269	NP_001349069.1	XP_021331448.1	53.696	257	119	0	60	316
270	NP_001349069.1	XP_021331448.1	54.264	258	118	0	58	315
271	NP_001349069.1	XP_021331448.1	51.938	258	124	0	58	315
272	NP_001349069.1	XP_021331448.1	53.101	258	121	0	58	315
273	NP_001349069.1	XP_021331448.1	52.713	258	122	0	58	315
274	NP_001349069.1	XP_021331448.1	53.876	258	119	0	58	315
275	NP_001349069.1	XP_021331448.1	51.172	256	125	0	60	315
276	NP_001349069.1	XP_021331448.1	51.938	258	124	0	58	315
277	NP_001349069.1	XP_021331448.1	49.630	270	136	0	46	315
278	NP_001349069.1	XP_021331448.1	54.936	233	105	0	58	290
279	NP_001349069.1	XP_021331448.1	52.137	234	112	0	82	315
280	NP_001349069.1	XP_021331448.1	55.319	94	42	0	223	316
281	NP_001349069.1	XP_021331293.1	53.846	260	120	0	58	317
282	NP_001349069.1	XP_021331293.1	51.264	277	134	1	58	333
283	NP_001349069.1	XP_021331293.1	53.101	258	121	0	58	315
284	NP_001349069.1	XP_021331293.1	52.713	258	122	0	58	315

285	NP_001349069.1	XP_021331293.1	47.039	304	158	2	33	333
286	NP_001349069.1	XP_021331293.1	50.400	250	123	1	82	330
287	NP_001349069.1	XP_021331293.1	51.046	239	117	0	58	296
288	NP_001349069.1	XP_021331474.1	48.980	294	141	2	31	315
289	NP_001349069.1	XP_021331474.1	50.775	258	127	0	58	315
290	NP_001349069.1	XP_021331474.1	50.394	254	126	0	58	311
291	NP_001349069.1	XP_021331474.1	52.500	200	95	0	58	257
292	NP_001349069.1	XP_021331422.1	53.876	258	119	0	58	315
293	NP_001349069.1	XP_021331422.1	53.053	262	123	0	58	319
294	NP_001349069.1	XP_021331422.1	52.713	258	122	0	58	315
295	NP_001349069.1	XP_021331422.1	53.150	254	119	0	58	311
296	NP_001349069.1	XP_021331422.1	50.916	273	133	1	58	329
297	NP_001349069.1	XP_021331422.1	53.101	258	121	0	58	315
298	NP_001349069.1	XP_021331422.1	50.000	272	135	1	60	330
299	NP_001349069.1	XP_021331422.1	51.709	234	113	0	82	315
300	NP_001349069.1	XP_021331422.1	52.000	200	96	0	58	257
301	NP_001349069.1	XP_021331422.1	50.510	196	96	1	139	333
302	NP_001349069.1	XP_021328522.1	50.345	290	116	1	58	319
303	NP_001349069.1	XP_021328522.1	53.383	266	124	0	50	315
304	NP_001349069.1	XP_021328522.1	49.281	278	141	0	38	315
305	NP_001349069.1	XP_021328522.1	51.737	259	125	0	58	316
306	NP_001349069.1	XP_021328522.1	52.326	258	123	0	58	315
307	NP_001349069.1	XP_021328522.1	51.550	258	125	0	58	315
308	NP_001349069.1	XP_021328522.1	52.564	234	111	0	82	315
309	NP_001349069.1	XP_021328522.1	53.143	175	82	0	58	232
310	NP_001349069.1	XP_021331014.1	53.506	271	126	0	60	330
311	NP_001349069.1	XP_021331014.1	52.326	258	123	0	58	315
312	NP_001349069.1	XP_021331014.1	52.326	258	123	0	58	315
313	NP_001349069.1	XP_021331014.1	51.163	258	126	0	58	315
314	NP_001349069.1	XP_021331014.1	51.938	258	124	0	58	315
315	NP_001349069.1	XP_021331014.1	49.612	258	130	0	58	315
316	NP_001349069.1	XP_021331014.1	45.973	298	159	2	19	315
317	NP_001349069.1	XP_021331014.1	54.936	233	104	1	58	290
318	NP_001349069.1	XP_021331014.1	46.970	198	105	0	119	316
319	NP_001349069.1	XP_021331025.1	49.819	277	138	1	58	333
320	NP_001349069.1	XP_021331025.1	49.438	267	135	0	49	315
321	NP_001349069.1	XP_021331025.1	46.403	278	147	2	54	330
322	NP_001349069.1	XP_021331025.1	49.794	243	119	1	58	297
323	NP_001349069.1	XP_021331025.1	50.230	217	105	1	60	273
324	NP_001349069.1	XP_017210610.1	52.555	274	129	1	58	330
325	NP_001349069.1	XP_017210610.1	49.823	283	140	2	50	330
326	NP_001349069.1	XP_017210610.1	50.787	254	125	0	58	311
327	NP_001349069.1	XP_021328514.1	53.383	266	124	0	50	315

328	NP_001349069.1	XP_021328514.1	49.281	278	141	0	38	315
329	NP_001349069.1	XP_021328514.1	53.101	258	121	0	58	315
330	NP_001349069.1	XP_021328514.1	52.326	258	123	0	58	315
331	NP_001349069.1	XP_021328514.1	50.382	262	130	0	58	319
332	NP_001349069.1	XP_021328514.1	51.550	258	125	0	58	315
333	NP_001349069.1	XP_021328514.1	52.564	234	111	0	82	315
334	NP_001349069.1	XP_021328514.1	51.429	175	85	0	58	232
335	NP_001349069.1	XP_021326473.1	53.516	256	119	0	58	313
336	NP_001349069.1	XP_021326473.1	50.181	277	137	1	58	333
337	NP_001349069.1	XP_021326473.1	52.326	258	123	0	58	315
338	NP_001349069.1	XP_021326473.1	53.543	254	118	0	60	313
339	NP_001349069.1	XP_021326473.1	52.124	259	124	0	58	316
340	NP_001349069.1	XP_021326473.1	53.125	256	120	0	58	313
341	NP_001349069.1	XP_021326473.1	48.201	278	143	1	57	333
342	NP_001349069.1	XP_021331434.1	53.053	262	123	0	50	311
343	NP_001349069.1	XP_021331434.1	50.193	259	129	0	58	316
344	NP_001349069.1	XP_021331434.1	51.793	251	121	0	65	315
345	NP_001349069.1	XP_021331434.1	49.609	256	129	0	58	313
346	NP_001349069.1	XP_021331434.1	53.304	227	106	0	93	319
347	NP_001349069.1	XP_021330857.1	50.735	272	129	1	45	311
348	NP_001349069.1	XP_021330857.1	49.434	265	132	2	50	313
349	NP_001349069.1	XP_021330857.1	45.926	135	73	0	38	172
350	NP_001349069.1	XP_021330857.1	51.327	113	54	1	203	315
351	NP_001349069.1	XP_021328500.1	52.593	270	128	0	50	319
352	NP_001349069.1	XP_021328500.1	54.054	259	119	0	58	316
353	NP_001349069.1	XP_021328500.1	53.488	258	120	0	58	315
354	NP_001349069.1	XP_021328500.1	49.281	278	141	0	38	315
355	NP_001349069.1	XP_021328500.1	52.326	258	123	0	58	315
356	NP_001349069.1	XP_021328500.1	52.672	262	124	0	58	319
357	NP_001349069.1	XP_021328500.1	50.775	258	127	0	58	315
358	NP_001349069.1	XP_021328500.1	51.550	258	125	0	58	315
359	NP_001349069.1	XP_021328500.1	52.564	234	111	0	82	315
360	NP_001349069.1	XP_021328500.1	53.143	175	82	0	58	232
361	NP_001349069.1	XP_021331203.1	51.264	277	134	1	58	333
362	NP_001349069.1	XP_021331203.1	51.986	277	132	1	58	333
363	NP_001349069.1	XP_021331203.1	49.819	277	138	1	58	333
364	NP_001349069.1	XP_021331203.1	52.896	259	122	0	58	316
365	NP_001349069.1	XP_021331203.1	52.326	258	123	0	58	315
366	NP_001349069.1	XP_021331203.1	51.550	258	125	0	58	315
367	NP_001349069.1	XP_021331203.1	53.125	256	120	0	58	313
368	NP_001349069.1	XP_021331203.1	52.344	256	122	0	58	313
369	NP_001349069.1	XP_021331203.1	52.174	253	120	1	82	333
370	NP_001349069.1	XP_021327006.1	53.282	259	121	0	58	316

371	NP_001349069.1	XP_021327006.1	49.458	277	139	1	58	333
372	NP_001349069.1	XP_021327006.1	51.460	274	132	1	58	330
373	NP_001349069.1	XP_021327006.1	50.388	258	128	0	58	315
374	NP_001349069.1	XP_021327006.1	49.804	255	128	0	59	313
375	NP_001349069.1	XP_021327006.1	45.693	267	145	0	49	315
376	NP_001349069.1	XP_021327006.1	51.502	233	113	0	58	290
377	NP_001349069.1	XP_021327006.1	50.655	229	113	0	87	315
378	NP_001349069.1	XP_021327006.1	47.525	202	106	0	115	316
379	NP_001349069.1	XP_021328499.1	52.593	270	128	0	50	319
380	NP_001349069.1	XP_021328499.1	54.054	259	119	0	58	316
381	NP_001349069.1	XP_021328499.1	49.281	278	141	0	38	315
382	NP_001349069.1	XP_021328499.1	52.326	258	123	0	58	315
383	NP_001349069.1	XP_021328499.1	50.775	258	127	0	58	315
384	NP_001349069.1	XP_021328499.1	53.257	261	119	1	58	315
385	NP_001349069.1	XP_021328499.1	52.075	265	124	1	58	319
386	NP_001349069.1	XP_021328499.1	51.550	258	125	0	58	315
387	NP_001349069.1	XP_021328499.1	52.564	234	111	0	82	315
388	NP_001349069.1	XP_021328499.1	52.809	178	81	1	58	232
389	NP_001349069.1	XP_021328528.1	52.593	270	128	0	50	319
390	NP_001349069.1	XP_021328528.1	54.054	259	119	0	58	316
391	NP_001349069.1	XP_021328528.1	49.281	278	141	0	38	315
392	NP_001349069.1	XP_021328528.1	52.326	258	123	0	58	315
393	NP_001349069.1	XP_021328528.1	52.326	258	123	0	58	315
394	NP_001349069.1	XP_021328528.1	52.713	258	122	0	58	315
395	NP_001349069.1	XP_021328528.1	50.775	258	127	0	58	315
396	NP_001349069.1	XP_021328528.1	51.550	258	125	0	58	315
397	NP_001349069.1	XP_021328528.1	50.763	262	129	0	58	319
398	NP_001349069.1	XP_021328528.1	53.846	234	108	0	82	315
399	NP_001349069.1	XP_021328528.1	52.000	175	84	0	58	232
400	NP_001349069.1	XP_021331207.1	50.903	277	135	1	58	333
401	NP_001349069.1	XP_021331207.1	51.986	277	132	1	58	333
402	NP_001349069.1	XP_021331207.1	53.906	256	118	0	58	313
403	NP_001349069.1	XP_021331207.1	49.819	277	138	1	58	333
404	NP_001349069.1	XP_021331207.1	52.510	259	123	0	58	316
405	NP_001349069.1	XP_021331207.1	51.938	258	124	0	58	315
406	NP_001349069.1	XP_021331207.1	52.713	258	122	0	58	315
407	NP_001349069.1	XP_021331207.1	51.550	258	125	0	58	315
408	NP_001349069.1	XP_021331207.1	50.988	253	123	1	82	333
409	NP_001349069.1	XP_021326715.1	53.937	254	117	0	58	311
410	NP_001349069.1	XP_021326715.1	47.020	302	155	2	19	319
411	NP_001349069.1	XP_021326715.1	51.504	266	129	0	50	315
412	NP_001349069.1	XP_021326715.1	49.807	259	130	0	58	316
413	NP_001349069.1	XP_021326715.1	49.609	256	129	0	58	313

414	NP_001349069.1	XP_021328513.1	54.054	259	119	0	58	316
415	NP_001349069.1	XP_021328513.1	52.222	270	128	1	50	319
416	NP_001349069.1	XP_021328513.1	49.281	278	141	0	38	315
417	NP_001349069.1	XP_021328513.1	52.326	258	123	0	58	315
418	NP_001349069.1	XP_021328513.1	50.775	258	127	0	58	315
419	NP_001349069.1	XP_021328513.1	51.550	258	125	0	58	315
420	NP_001349069.1	XP_021328513.1	52.564	234	111	0	82	315
421	NP_001349069.1	XP_021328513.1	51.515	231	111	1	58	288
422	NP_001349069.1	XP_021331206.1	50.542	277	136	1	58	333
423	NP_001349069.1	XP_021331206.1	51.625	277	133	1	58	333
424	NP_001349069.1	XP_021331206.1	55.078	256	115	0	58	313
425	NP_001349069.1	XP_021331206.1	49.819	277	138	1	58	333
426	NP_001349069.1	XP_021331206.1	52.326	258	123	0	58	315
427	NP_001349069.1	XP_021331206.1	52.896	259	122	0	58	316
428	NP_001349069.1	XP_021331206.1	52.326	258	123	0	58	315
429	NP_001349069.1	XP_021331206.1	53.125	256	120	0	58	313
430	NP_001349069.1	XP_021331206.1	54.741	232	105	0	82	313
431	NP_001349069.1	XP_021331206.1	44.681	94	48	2	251	340
432	NP_001349069.1	XP_021331202.1	50.903	277	135	1	58	333
433	NP_001349069.1	XP_021331202.1	51.986	277	132	1	58	333
434	NP_001349069.1	XP_021331202.1	49.819	277	138	1	58	333
435	NP_001349069.1	XP_021331202.1	52.326	258	123	0	58	315
436	NP_001349069.1	XP_021331202.1	52.896	259	122	0	58	316
437	NP_001349069.1	XP_021331202.1	53.906	256	118	0	58	313
438	NP_001349069.1	XP_021331202.1	52.326	258	123	0	58	315
439	NP_001349069.1	XP_021331202.1	52.734	256	121	0	58	313
440	NP_001349069.1	XP_021331202.1	53.125	256	120	0	58	313
441	NP_001349069.1	XP_021331202.1	51.383	253	122	1	82	333
442	NP_001349069.1	XP_021331375.1	54.264	258	118	0	58	315
443	NP_001349069.1	XP_021331375.1	53.876	258	119	0	58	315
444	NP_001349069.1	XP_021331375.1	54.264	258	118	0	58	315
445	NP_001349069.1	XP_021331375.1	49.640	278	140	0	38	315
446	NP_001349069.1	XP_021331375.1	54.264	258	118	0	58	315
447	NP_001349069.1	XP_021331375.1	53.101	258	121	0	58	315
448	NP_001349069.1	XP_021331375.1	53.571	252	117	0	58	309
449	NP_001349069.1	XP_021331375.1	51.163	258	126	0	58	315
450	NP_001349069.1	XP_021331375.1	52.564	234	111	0	82	315
451	NP_001349069.1	XP_021330828.1	55.039	258	116	0	58	315
452	NP_001349069.1	XP_021330828.1	49.320	294	148	1	38	330
453	NP_001349069.1	XP_021330828.1	53.488	258	120	0	58	315
454	NP_001349069.1	XP_021330828.1	55.039	258	116	0	58	315
455	NP_001349069.1	XP_021330828.1	52.713	258	122	0	58	315
456	NP_001349069.1	XP_021330828.1	52.713	258	122	0	58	315

457	NP_001349069.1	XP_021330828.1	53.101	258	121	0	58	315
458	NP_001349069.1	XP_021330828.1	52.344	256	122	0	60	315
459	NP_001349069.1	XP_021330828.1	52.713	258	122	0	58	315
460	NP_001349069.1	XP_021330828.1	47.712	306	154	3	12	315
461	NP_001349069.1	XP_021330828.1	52.326	258	123	0	58	315
462	NP_001349069.1	XP_021330828.1	50.730	274	134	1	58	330
463	NP_001349069.1	XP_021330828.1	51.163	258	126	0	58	315
464	NP_001349069.1	XP_021330828.1	50.385	260	129	0	58	317
465	NP_001349069.1	NP_001103332.1	52.490	261	123	1	50	309
466	NP_001349069.1	NP_001103332.1	47.737	243	123	1	73	315
467	NP_001349069.1	XP_017211180.1	50.181	277	137	1	58	333
468	NP_001349069.1	XP_017211180.1	50.566	265	131	0	49	313
469	NP_001349069.1	XP_017211180.1	51.562	256	124	0	58	313
470	NP_001349069.1	XP_017211180.1	50.187	267	132	1	50	315
471	NP_001349069.1	XP_017211180.1	50.566	265	131	0	49	313
472	NP_001349069.1	XP_017211180.1	50.644	233	115	0	58	290
473	NP_001349069.1	XP_017211059.1	48.675	302	150	2	19	319
474	NP_001349069.1	XP_017211059.1	52.632	266	126	0	50	315
475	NP_001349069.1	XP_017211059.1	51.737	259	125	0	58	316
476	NP_001349069.1	XP_017211059.1	51.562	256	124	0	58	313
477	NP_001349069.1	XP_021330543.1	47.910	311	155	1	6	316
478	NP_001349069.1	XP_021330543.1	53.101	258	121	0	58	315
479	NP_001349069.1	XP_021330543.1	51.527	262	125	1	56	315
480	NP_001349069.1	XP_021330543.1	50.775	258	127	0	58	315
481	NP_001349069.1	XP_021330543.1	50.193	259	129	0	58	316
482	NP_001349069.1	XP_021330543.1	48.689	267	137	0	49	315
483	NP_001349069.1	XP_021330543.1	47.191	267	141	0	49	315
484	NP_001349069.1	XP_021330543.1	50.000	258	129	0	59	316
485	NP_001349069.1	XP_021330543.1	50.781	256	126	0	58	313
486	NP_001349069.1	XP_021330543.1	46.718	259	138	0	58	316
487	NP_001349069.1	XP_021330543.1	47.212	269	138	3	50	315
488	NP_001349069.1	XP_021330543.1	47.490	259	133	2	60	316
489	NP_001349069.1	XP_021330543.1	42.268	97	56	0	49	145
490	NP_001349069.1	XP_021331208.1	50.542	277	136	1	58	333
491	NP_001349069.1	XP_021331208.1	50.181	277	137	1	58	333
492	NP_001349069.1	XP_021331208.1	53.906	256	118	0	58	313
493	NP_001349069.1	XP_021331208.1	54.264	258	118	0	58	315
494	NP_001349069.1	XP_021331208.1	51.264	277	134	1	58	333
495	NP_001349069.1	XP_021331208.1	52.510	259	123	0	58	316
496	NP_001349069.1	XP_021331208.1	51.938	258	124	0	58	315
497	NP_001349069.1	XP_021331208.1	52.713	258	122	0	58	315
498	NP_001349069.1	XP_021331208.1	54.274	234	107	0	82	315
499	NP_001349069.1	XP_021331208.1	44.681	94	48	2	251	340

500	NP_001349069.1	XP_021331209.1	50.545	275	135	1	60	333
501	NP_001349069.1	XP_021331209.1	49.819	277	138	1	58	333
502	NP_001349069.1	XP_021331209.1	52.896	259	122	0	58	316
503	NP_001349069.1	XP_021331209.1	52.326	258	123	0	58	315
504	NP_001349069.1	XP_021331209.1	53.125	256	120	0	58	313
505	NP_001349069.1	XP_021331209.1	52.344	256	122	0	58	313
506	NP_001349069.1	XP_021331209.1	50.988	253	123	1	82	333
507	NP_001349069.1	XP_017211184.1	51.311	267	130	0	49	315
508	NP_001349069.1	XP_017211184.1	49.097	277	140	1	58	333
509	NP_001349069.1	XP_017211184.1	51.282	234	114	0	82	315
510	NP_001349069.1	XP_017211184.1	51.502	233	113	0	58	290
511	NP_001349069.1	XP_021331231.1	51.471	272	132	0	44	315
512	NP_001349069.1	XP_021331231.1	52.713	258	122	0	58	315
513	NP_001349069.1	XP_021331231.1	53.876	258	119	0	58	315
514	NP_001349069.1	XP_021331231.1	53.053	262	119	1	58	315
515	NP_001349069.1	XP_021331231.1	51.908	262	122	1	58	315
516	NP_001349069.1	XP_021331231.1	52.941	238	108	1	82	315
517	NP_001349069.1	XP_021331231.1	53.648	233	108	0	58	290
518	NP_001349069.1	XP_021331231.1	51.064	141	64	2	195	330
519	NP_001349069.1	XP_021331232.1	53.488	258	120	0	58	315
520	NP_001349069.1	XP_021331232.1	52.713	258	122	0	58	315
521	NP_001349069.1	XP_021331232.1	53.876	258	119	0	58	315
522	NP_001349069.1	XP_021331232.1	53.488	258	120	0	58	315
523	NP_001349069.1	XP_021331232.1	51.938	258	124	0	58	315
524	NP_001349069.1	XP_021331232.1	53.488	258	120	0	58	315
525	NP_001349069.1	XP_021331232.1	54.274	234	107	0	82	315
526	NP_001349069.1	XP_021331232.1	53.648	233	108	0	58	290
527	NP_001349069.1	XP_021331394.1	54.688	256	116	0	58	313
528	NP_001349069.1	XP_021331394.1	55.422	249	111	0	65	313
529	NP_001349069.1	XP_021331394.1	49.802	253	127	0	58	310
530	NP_001349069.1	XP_021331394.1	50.196	255	126	1	60	314
531	NP_001349069.1	XP_021331394.1	46.444	239	127	1	46	284
532	NP_001349069.1	XP_021331394.1	56.098	82	36	0	232	313
533	NP_001349069.1	XP_021330825.1	53.488	258	120	0	58	315
534	NP_001349069.1	XP_021330825.1	53.543	254	118	0	58	311
535	NP_001349069.1	XP_021330825.1	49.648	284	142	1	37	319
536	NP_001349069.1	XP_021330825.1	52.713	258	122	0	58	315
537	NP_001349069.1	XP_021330825.1	52.500	200	95	0	58	257
538	NP_001349069.1	XP_021330825.1	41.958	286	138	3	58	315
539	NP_001349069.1	XP_021330825.1	50.000	208	104	0	111	318
540	NP_001349069.1	XP_021330825.1	47.236	199	105	0	82	280
541	NP_001349069.1	XP_021330825.1	52.318	151	72	0	166	316
542	NP_001349069.1	XP_021331440.1	46.894	322	162	3	21	333

543	NP_001349069.1	XP_021331440.1	52.713	258	122	0	58	315
544	NP_001349069.1	XP_021331440.1	52.326	258	123	0	58	315
545	NP_001349069.1	XP_021331440.1	51.527	262	127	0	58	319
546	NP_001349069.1	XP_021331440.1	51.351	259	126	0	58	316
547	NP_001349069.1	XP_021331440.1	49.815	271	136	0	49	319
548	NP_001349069.1	XP_021331440.1	52.137	234	112	0	82	315
549	NP_001349069.1	XP_021331440.1	49.490	196	95	1	46	237
550	NP_001349069.1	XP_021331233.1	53.488	258	120	0	58	315
551	NP_001349069.1	XP_021331233.1	52.713	258	122	0	58	315
552	NP_001349069.1	XP_021331233.1	53.876	258	119	0	58	315
553	NP_001349069.1	XP_021331233.1	52.713	258	122	0	58	315
554	NP_001349069.1	XP_021331233.1	53.488	258	120	0	58	315
555	NP_001349069.1	XP_021331233.1	51.938	258	124	0	58	315
556	NP_001349069.1	XP_021331233.1	51.938	258	124	0	58	315
557	NP_001349069.1	XP_021331233.1	53.419	234	109	0	82	315
558	NP_001349069.1	XP_021331233.1	53.648	233	108	0	58	290
559	NP_001349069.1	XP_021330830.1	53.725	255	118	0	58	312
560	NP_001349069.1	XP_021330830.1	51.471	272	129	2	43	313
561	NP_001349069.1	XP_021330830.1	48.583	247	123	1	69	315
562	NP_001349069.1	XP_021330830.1	50.820	183	90	0	46	228
563	NP_001349069.1	XP_021329621.1	52.734	256	121	0	58	313
564	NP_001349069.1	XP_021329621.1	50.388	258	128	0	58	315
565	NP_001349069.1	XP_021329621.1	46.403	278	148	1	39	315
566	NP_001349069.1	XP_021329620.1	52.734	256	121	0	58	313
567	NP_001349069.1	XP_021329620.1	50.388	258	128	0	58	315
568	NP_001349069.1	XP_021329620.1	46.403	278	148	1	39	315
569	NP_001349069.1	XP_021329619.1	52.734	256	121	0	58	313
570	NP_001349069.1	XP_021329619.1	50.388	258	128	0	58	315
571	NP_001349069.1	XP_021329619.1	46.403	278	148	1	39	315
572	NP_001349069.1	XP_021329618.1	52.734	256	121	0	58	313
573	NP_001349069.1	XP_021329618.1	50.388	258	128	0	58	315
574	NP_001349069.1	XP_021329618.1	46.403	278	148	1	39	315
575	NP_001349069.1	XP_021329617.1	52.734	256	121	0	58	313
576	NP_001349069.1	XP_021329617.1	50.388	258	128	0	58	315
577	NP_001349069.1	XP_021329617.1	46.403	278	148	1	39	315
578	NP_001349069.1	XP_017210929.2	52.713	258	122	0	58	315
579	NP_001349069.1	XP_017210929.2	52.344	256	122	0	58	313
580	NP_001349069.1	XP_017210929.2	49.012	253	129	0	46	298
581	NP_001349069.1	XP_017210929.2	52.301	239	114	0	77	315
582	NP_001349069.1	XP_017210929.2	48.756	201	102	1	134	333
583	NP_001349069.1	XP_021331421.1	50.000	276	137	1	56	330
584	NP_001349069.1	XP_021331421.1	51.751	257	124	0	56	312
585	NP_001349069.1	XP_021331421.1	51.154	260	127	0	56	315

586	NP_001349069.1	XP_021331421.1	51.538	260	126	0	56	315
587	NP_001349069.1	XP_021331421.1	51.154	260	127	0	56	315
588	NP_001349069.1	XP_021331421.1	50.769	260	128	0	56	315
589	NP_001349069.1	XP_021331421.1	46.667	285	151	1	50	333
590	NP_001349069.1	XP_021331421.1	52.137	234	112	0	82	315
591	NP_001349069.1	XP_021331421.1	52.340	235	112	0	56	290
592	NP_001349069.1	XP_021331421.1	49.490	196	98	1	139	333
593	NP_001349069.1	XP_021326992.1	52.326	258	123	0	58	315
594	NP_001349069.1	XP_021326992.1	51.163	258	126	0	58	315
595	NP_001349069.1	XP_021326992.1	46.043	278	149	1	39	315
596	NP_001349069.1	XP_021326991.1	52.326	258	123	0	58	315
597	NP_001349069.1	XP_021326991.1	51.163	258	126	0	58	315
598	NP_001349069.1	XP_021326991.1	46.043	278	149	1	39	315
599	NP_001349069.1	XP_021326990.1	52.326	258	123	0	58	315
600	NP_001349069.1	XP_021326990.1	51.163	258	126	0	58	315
601	NP_001349069.1	XP_021326990.1	46.043	278	149	1	39	315
602	NP_001349069.1	XP_021326989.1	52.326	258	123	0	58	315
603	NP_001349069.1	XP_021326989.1	51.163	258	126	0	58	315
604	NP_001349069.1	XP_021326989.1	46.043	278	149	1	39	315
605	NP_001349069.1	XP_021326988.1	52.326	258	123	0	58	315
606	NP_001349069.1	XP_021326988.1	51.163	258	126	0	58	315
607	NP_001349069.1	XP_021326988.1	46.043	278	149	1	39	315
608	NP_001349069.1	XP_021326987.1	52.326	258	123	0	58	315
609	NP_001349069.1	XP_021326987.1	51.163	258	126	0	58	315
610	NP_001349069.1	XP_021326987.1	46.043	278	149	1	39	315
611	NP_001349069.1	XP_021326986.1	52.326	258	123	0	58	315
612	NP_001349069.1	XP_021326986.1	51.163	258	126	0	58	315
613	NP_001349069.1	XP_021326986.1	46.043	278	149	1	39	315
614	NP_001349069.1	XP_021330529.1	52.326	258	123	0	58	315
615	NP_001349069.1	XP_021330529.1	51.163	258	126	0	58	315
616	NP_001349069.1	XP_021330529.1	46.043	278	149	1	39	315
617	NP_001349069.1	XP_021330528.1	52.326	258	123	0	58	315
618	NP_001349069.1	XP_021330528.1	51.163	258	126	0	58	315
619	NP_001349069.1	XP_021330528.1	46.043	278	149	1	39	315
620	NP_001349069.1	XP_021330527.1	52.326	258	123	0	58	315
621	NP_001349069.1	XP_021330527.1	51.163	258	126	0	58	315
622	NP_001349069.1	XP_021330527.1	46.043	278	149	1	39	315
623	NP_001349069.1	XP_021330526.1	52.326	258	123	0	58	315
624	NP_001349069.1	XP_021330526.1	51.163	258	126	0	58	315
625	NP_001349069.1	XP_021330526.1	46.043	278	149	1	39	315
626	NP_001349069.1	XP_021330525.1	52.326	258	123	0	58	315
627	NP_001349069.1	XP_021330525.1	51.163	258	126	0	58	315
628	NP_001349069.1	XP_021330525.1	46.043	278	149	1	39	315

629	NP_001349069.1	XP_021330524.1	52.326	258	123	0	58	315
630	NP_001349069.1	XP_021330524.1	51.163	258	126	0	58	315
631	NP_001349069.1	XP_021330524.1	46.043	278	149	1	39	315
632	NP_001349069.1	XP_021330523.1	52.326	258	123	0	58	315
633	NP_001349069.1	XP_021330523.1	51.163	258	126	0	58	315
634	NP_001349069.1	XP_021330523.1	46.043	278	149	1	39	315
635	NP_001349069.1	XP_021326998.1	52.326	258	123	0	58	315
636	NP_001349069.1	XP_021326998.1	51.163	258	126	0	58	315
637	NP_001349069.1	XP_021326998.1	46.043	278	149	1	39	315
638	NP_001349069.1	XP_021326997.1	52.326	258	123	0	58	315
639	NP_001349069.1	XP_021326997.1	51.163	258	126	0	58	315
640	NP_001349069.1	XP_021326997.1	46.043	278	149	1	39	315
641	NP_001349069.1	XP_021326996.1	52.326	258	123	0	58	315
642	NP_001349069.1	XP_021326996.1	51.163	258	126	0	58	315
643	NP_001349069.1	XP_021326996.1	46.043	278	149	1	39	315
644	NP_001349069.1	XP_021326995.1	52.326	258	123	0	58	315
645	NP_001349069.1	XP_021326995.1	51.163	258	126	0	58	315
646	NP_001349069.1	XP_021326995.1	46.043	278	149	1	39	315
647	NP_001349069.1	XP_021326994.1	52.326	258	123	0	58	315
648	NP_001349069.1	XP_021326994.1	51.163	258	126	0	58	315
649	NP_001349069.1	XP_021326994.1	46.043	278	149	1	39	315
650	NP_001349069.1	XP_021326993.1	52.326	258	123	0	58	315
651	NP_001349069.1	XP_021326993.1	51.163	258	126	0	58	315
652	NP_001349069.1	XP_021326993.1	46.043	278	149	1	39	315
653	NP_001349069.1	XP_021330536.1	52.326	258	123	0	58	315
654	NP_001349069.1	XP_021330536.1	51.163	258	126	0	58	315
655	NP_001349069.1	XP_021330536.1	46.043	278	149	1	39	315
656	NP_001349069.1	XP_021330534.1	52.326	258	123	0	58	315
657	NP_001349069.1	XP_021330534.1	51.163	258	126	0	58	315
658	NP_001349069.1	XP_021330534.1	46.043	278	149	1	39	315
659	NP_001349069.1	XP_021330533.1	52.326	258	123	0	58	315
660	NP_001349069.1	XP_021330533.1	51.163	258	126	0	58	315
661	NP_001349069.1	XP_021330533.1	46.043	278	149	1	39	315
662	NP_001349069.1	XP_021330532.1	52.326	258	123	0	58	315
663	NP_001349069.1	XP_021330532.1	51.163	258	126	0	58	315
664	NP_001349069.1	XP_021330532.1	46.043	278	149	1	39	315
665	NP_001349069.1	XP_021330531.1	52.326	258	123	0	58	315
666	NP_001349069.1	XP_021330531.1	51.163	258	126	0	58	315
667	NP_001349069.1	XP_021330531.1	46.043	278	149	1	39	315
668	NP_001349069.1	XP_021330530.1	52.326	258	123	0	58	315
669	NP_001349069.1	XP_021330530.1	51.163	258	126	0	58	315
670	NP_001349069.1	XP_021330530.1	46.043	278	149	1	39	315
671	NP_001349069.1	XP_021331018.1	52.692	260	123	0	58	317

672	NP_001349069.1	XP_021331018.1	51.639	244	118	0	76	319
673	NP_001349069.1	XP_021331018.1	51.163	215	105	0	99	313
674	NP_001349069.1	XP_021331018.1	47.664	214	105	2	127	333
675	NP_001349069.1	XP_021329616.1	52.734	256	121	0	58	313
676	NP_001349069.1	XP_021329616.1	50.781	256	126	0	58	313
677	NP_001349069.1	XP_021329616.1	46.739	276	146	1	39	313
678	NP_001349069.1	XP_021331217.1	52.734	256	121	0	60	315
679	NP_001349069.1	XP_021331217.1	53.906	256	118	0	60	315
680	NP_001349069.1	XP_021331217.1	52.326	258	123	0	56	313
681	NP_001349069.1	XP_021331217.1	50.958	261	128	0	56	316
682	NP_001349069.1	XP_021331217.1	47.670	279	145	1	56	333
683	NP_001349069.1	XP_021331217.1	47.312	279	146	1	56	333
684	NP_001349069.1	XP_021331217.1	47.308	260	137	0	56	315
685	NP_001349069.1	XP_021331217.1	47.308	260	137	0	56	315
686	NP_001349069.1	XP_021331217.1	46.245	253	136	0	63	315
687	NP_001349069.1	XP_021331217.1	41.063	207	114	2	106	312
688	NP_001349069.1	XP_021330854.1	52.326	258	123	0	58	315
689	NP_001349069.1	XP_021330854.1	48.905	274	139	1	58	330
690	NP_001349069.1	XP_021330854.1	54.043	235	108	0	81	315
691	NP_001349069.1	XP_021330854.1	48.450	258	133	0	58	315
692	NP_001349069.1	XP_021330854.1	52.577	194	92	0	58	251
693	NP_001349069.1	XP_021330854.1	44.828	58	31	1	277	333
694	NP_001349069.1	XP_017209855.2	53.516	256	119	0	58	313
695	NP_001349069.1	XP_017209855.2	50.181	277	137	1	58	333
696	NP_001349069.1	XP_017209855.2	53.516	256	119	0	58	313
697	NP_001349069.1	XP_017209855.2	52.326	258	123	0	58	315
698	NP_001349069.1	XP_017209855.2	49.819	277	138	1	58	333
699	NP_001349069.1	XP_017209855.2	52.124	259	124	0	58	316
700	NP_001349069.1	XP_017209855.2	53.125	256	120	0	58	313
701	NP_001349069.1	XP_017209855.2	50.781	256	126	0	58	313
702	NP_001349069.1	XP_017209855.2	46.570	277	147	1	58	333
703	NP_001349069.1	XP_017209855.2	46.209	277	148	1	58	333
704	NP_001349069.1	XP_017209855.2	44.333	300	138	2	63	333
705	NP_001349069.1	XP_017209855.2	44.643	168	93	0	146	313
706	NP_001349069.1	XP_021331342.1	53.462	260	121	0	56	315
707	NP_001349069.1	XP_021331342.1	53.077	260	122	0	56	315
708	NP_001349069.1	XP_021331342.1	50.000	260	130	0	56	315
709	NP_001349069.1	XP_021331342.1	50.385	260	129	0	56	315
710	NP_001349069.1	XP_021331342.1	50.385	260	129	0	56	315
711	NP_001349069.1	XP_021331342.1	49.231	260	132	0	56	315
712	NP_001349069.1	XP_021331342.1	49.231	260	132	0	56	315
713	NP_001349069.1	XP_021331342.1	50.196	255	126	1	56	309
714	NP_001349069.1	XP_021331342.1	52.564	234	111	0	82	315

715	NP_001349069.1	XP_021331342.1	44.681	94	48	2	251	340
716	NP_001349069.1	XP_021331204.1	53.906	256	118	0	58	313
717	NP_001349069.1	XP_021331204.1	50.545	275	135	1	60	333
718	NP_001349069.1	XP_021331204.1	49.819	277	138	1	58	333
719	NP_001349069.1	XP_021331204.1	52.510	259	123	0	58	316
720	NP_001349069.1	XP_021331204.1	51.938	258	124	0	58	315
721	NP_001349069.1	XP_021331204.1	53.125	256	120	0	58	313
722	NP_001349069.1	XP_021331204.1	52.734	256	121	0	58	313
723	NP_001349069.1	XP_021331204.1	51.953	256	123	0	58	313
724	NP_001349069.1	XP_021331204.1	48.375	277	142	1	58	333
725	NP_001349069.1	XP_021331204.1	50.988	253	123	1	82	333
726	NP_001349069.1	XP_021331127.1	53.257	261	122	0	58	318
727	NP_001349069.1	XP_021331127.1	54.264	258	118	0	58	315
728	NP_001349069.1	XP_021331127.1	51.163	258	126	0	58	315
729	NP_001349069.1	XP_021331127.1	51.953	256	123	0	60	315
730	NP_001349069.1	XP_021331127.1	53.488	258	120	0	58	315
731	NP_001349069.1	XP_021331127.1	51.163	258	126	0	58	315
732	NP_001349069.1	XP_021331127.1	50.775	258	127	0	58	315
733	NP_001349069.1	XP_021331127.1	49.225	258	131	0	58	315
734	NP_001349069.1	XP_021331127.1	51.709	234	113	0	58	291
735	NP_001349069.1	XP_021331127.1	52.564	234	111	0	82	315
736	NP_001349069.1	XP_021331127.1	60.526	38	15	0	279	316
737	NP_001349069.1	XP_021331419.1	52.190	274	130	1	58	330
738	NP_001349069.1	XP_021331419.1	53.516	256	119	0	58	313
739	NP_001349069.1	XP_021331419.1	53.125	256	120	0	58	313
740	NP_001349069.1	XP_021331419.1	51.648	273	131	1	42	313
741	NP_001349069.1	XP_021331419.1	50.781	256	126	0	58	313
742	NP_001349069.1	XP_021331419.1	50.617	243	120	0	58	300
743	NP_001349069.1	XP_021331264.1	51.737	259	125	0	58	316
744	NP_001349069.1	XP_021331264.1	51.562	256	124	0	58	313
745	NP_001349069.1	XP_021331264.1	52.917	240	113	0	76	315
746	NP_001349069.1	XP_021331264.1	53.704	216	100	0	104	319
747	NP_001349069.1	XP_021331164.1	54.264	258	118	0	58	315
748	NP_001349069.1	XP_021331164.1	53.101	258	121	0	58	315
749	NP_001349069.1	XP_021331164.1	53.516	256	119	0	60	315
750	NP_001349069.1	XP_021331164.1	51.145	262	128	0	58	319
751	NP_001349069.1	XP_021331164.1	51.550	258	125	0	58	315
752	NP_001349069.1	XP_021331164.1	53.101	258	121	0	58	315
753	NP_001349069.1	XP_021331164.1	51.163	258	126	0	58	315
754	NP_001349069.1	XP_021331164.1	49.635	274	137	1	58	330
755	NP_001349069.1	XP_021331164.1	50.554	271	133	1	60	329
756	NP_001349069.1	XP_021331164.1	51.550	258	125	0	58	315
757	NP_001349069.1	XP_021331164.1	50.542	277	136	1	58	333

758	NP_001349069.1	XP_021331164.1	51.938	258	124	0	58	315
759	NP_001349069.1	XP_021331164.1	51.938	258	124	0	58	315
760	NP_001349069.1	XP_021331164.1	50.000	274	136	1	58	330
761	NP_001349069.1	XP_021331164.1	49.630	270	136	0	46	315
762	NP_001349069.1	XP_021331164.1	51.163	258	126	0	58	315
763	NP_001349069.1	XP_021331164.1	52.344	256	122	0	60	315
764	NP_001349069.1	XP_021331164.1	49.635	274	137	1	58	330
765	NP_001349069.1	XP_021331164.1	51.550	258	125	0	58	315
766	NP_001349069.1	XP_021331164.1	50.388	258	128	0	58	315
767	NP_001349069.1	XP_021331164.1	50.388	258	128	0	58	315
768	NP_001349069.1	XP_021331164.1	50.000	258	129	0	58	315
769	NP_001349069.1	XP_021331164.1	49.612	258	130	0	58	315
770	NP_001349069.1	XP_021331164.1	49.219	256	130	0	58	313
771	NP_001349069.1	XP_021331164.1	51.200	250	121	1	82	330
772	NP_001349069.1	XP_021331164.1	51.931	233	112	0	58	290
773	NP_001349069.1	XP_017211134.1	47.157	299	153	2	19	316
774	NP_001349069.1	XP_017211134.1	47.257	237	125	0	49	285
775	NP_001349069.1	XP_017211134.1	51.282	117	57	0	203	319
776	NP_001349069.1	XP_009298896.2	48.148	297	152	1	19	315
777	NP_001349069.1	XP_009298896.2	51.737	259	125	0	58	316
778	NP_001349069.1	XP_009298896.2	51.562	256	124	0	58	313
779	NP_001349069.1	XP_009298896.2	53.361	238	111	0	82	319
780	NP_001349069.1	XP_003198540.5	55.426	258	115	0	58	315
781	NP_001349069.1	XP_003198540.5	55.426	258	115	0	58	315
782	NP_001349069.1	XP_003198540.5	53.876	258	119	0	58	315
783	NP_001349069.1	XP_003198540.5	53.488	258	120	0	58	315
784	NP_001349069.1	XP_003198540.5	48.639	294	150	1	38	330
785	NP_001349069.1	XP_003198540.5	54.264	258	118	0	58	315
786	NP_001349069.1	XP_003198540.5	50.000	280	134	1	42	315
787	NP_001349069.1	XP_003198540.5	53.488	258	120	0	58	315
788	NP_001349069.1	XP_003198540.5	52.555	274	129	1	58	330
789	NP_001349069.1	XP_003198540.5	52.326	258	123	0	58	315
790	NP_001349069.1	XP_003198540.5	52.326	258	123	0	58	315
791	NP_001349069.1	XP_003198540.5	52.672	262	120	1	58	315
792	NP_001349069.1	XP_003198540.5	51.550	258	125	0	58	315
793	NP_001349069.1	XP_003198540.5	51.538	260	126	0	58	317
794	NP_001349069.1	XP_003198540.5	46.809	282	146	1	38	315
795	NP_001349069.1	XP_003198540.5	47.490	259	136	0	38	296
796	NP_001349069.1	XP_003198540.5	46.181	288	123	1	60	315
797	NP_001349069.1	XP_003198540.5	41.053	285	132	2	63	315
798	NP_001349069.1	XP_003198540.5	42.262	168	93	1	146	313
799	NP_001349069.1	XP_021331225.1	53.543	254	118	0	58	311
800	NP_001349069.1	XP_021331225.1	51.119	268	131	0	48	315

801	NP_001349069.1	XP_021331225.1	50.973	257	126	0	59	315
802	NP_001349069.1	XP_021331225.1	51.538	260	126	0	60	319
803	NP_001349069.1	XP_021331225.1	50.775	258	127	0	58	315
804	NP_001349069.1	XP_021331225.1	51.504	266	129	0	50	315
805	NP_001349069.1	XP_021331225.1	50.193	259	129	0	58	316
806	NP_001349069.1	XP_021331225.1	50.000	256	128	0	58	313
807	NP_001349069.1	XP_021331225.1	49.593	246	124	0	70	315
808	NP_001349069.1	XP_021331225.1	49.356	233	117	1	98	329
809	NP_001349069.1	XP_021331133.1	51.969	254	122	0	60	313
810	NP_001349069.1	XP_021331133.1	48.913	276	138	2	39	313
811	NP_001349069.1	XP_021331133.1	49.372	239	121	0	58	296
812	NP_001349069.1	XP_021331133.1	49.393	247	124	1	88	333
813	NP_001349069.1	NP_001314815.1	53.184	267	124	1	50	315
814	NP_001349069.1	NP_001314815.1	52.361	233	111	0	58	290
815	NP_001349069.1	NP_001314815.1	52.991	117	55	0	203	319
816	NP_001349069.1	XP_017211047.2	54.264	258	118	0	58	315
817	NP_001349069.1	XP_017211047.2	53.876	258	119	0	58	315
818	NP_001349069.1	XP_017211047.2	53.876	258	119	0	58	315
819	NP_001349069.1	XP_017211047.2	49.828	291	143	2	41	330
820	NP_001349069.1	XP_017211047.2	52.326	258	123	0	58	315
821	NP_001349069.1	XP_017211047.2	48.772	285	144	1	33	315
822	NP_001349069.1	XP_017211047.2	46.865	303	160	1	29	330
823	NP_001349069.1	XP_017211047.2	49.442	269	136	0	47	315
824	NP_001349069.1	XP_017211047.2	51.550	258	125	0	58	315
825	NP_001349069.1	XP_017211047.2	48.592	284	145	1	33	315
826	NP_001349069.1	XP_017211047.2	50.388	258	128	0	58	315
827	NP_001349069.1	XP_017211047.2	50.775	258	127	0	58	315
828	NP_001349069.1	XP_017211047.2	50.000	258	129	0	58	315
829	NP_001349069.1	XP_017211047.2	50.000	258	129	0	58	315
830	NP_001349069.1	XP_017211047.2	51.502	233	113	0	58	290
831	NP_001349069.1	XP_017211047.2	49.573	234	118	0	82	315
832	NP_001349069.1	XP_017211047.2	38.182	55	33	1	280	333
833	NP_001349069.1	XP_017209999.1	46.823	299	154	2	19	316
834	NP_001349069.1	XP_017209999.1	47.603	292	145	2	30	313
835	NP_001349069.1	XP_017209999.1	53.757	173	80	0	147	319
836	NP_001349069.1	XP_021331302.1	53.101	258	121	0	58	315
837	NP_001349069.1	XP_021331302.1	53.937	254	117	0	62	315
838	NP_001349069.1	XP_021331302.1	52.326	258	123	0	58	315
839	NP_001349069.1	XP_021331302.1	52.713	258	122	0	58	315
840	NP_001349069.1	XP_021331302.1	52.326	258	123	0	58	315
841	NP_001349069.1	XP_021331302.1	52.326	258	123	0	58	315
842	NP_001349069.1	XP_021331302.1	52.326	258	123	0	58	315
843	NP_001349069.1	XP_021331302.1	52.326	258	123	0	58	315

844	NP_001349069.1	XP_021331302.1	52.326	258	123	0	58	315
845	NP_001349069.1	XP_021331302.1	52.326	258	123	0	58	315
846	NP_001349069.1	XP_021331302.1	52.326	258	123	0	58	315
847	NP_001349069.1	XP_021331302.1	51.938	258	124	0	58	315
848	NP_001349069.1	XP_021331302.1	51.953	256	123	0	58	313
849	NP_001349069.1	XP_021331302.1	49.782	229	115	0	58	286
850	NP_001349069.1	XP_021331302.1	51.980	202	97	0	118	319
851	NP_001349069.1	XP_021331302.1	50.340	147	73	0	58	204
852	NP_001349069.1	XP_017211020.1	50.746	268	132	0	48	315
853	NP_001349069.1	XP_017211020.1	51.172	256	125	0	60	315
854	NP_001349069.1	XP_017211020.1	48.057	283	145	2	50	330
855	NP_001349069.1	XP_017211020.1	53.879	232	107	0	59	290
856	NP_001349069.1	XP_017211020.1	48.780	246	122	1	70	315
857	NP_001349069.1	XP_017211020.1	52.451	204	97	0	58	261
858	NP_001349069.1	XP_017211020.1	49.664	149	75	0	58	206
859	NP_001349069.1	XP_021331048.1	53.101	258	121	0	58	315
860	NP_001349069.1	XP_021331048.1	52.713	258	122	0	56	313
861	NP_001349069.1	XP_021331048.1	52.326	258	123	0	58	315
862	NP_001349069.1	XP_021331048.1	50.388	258	128	0	58	315
863	NP_001349069.1	XP_021331048.1	50.775	258	127	0	58	315
864	NP_001349069.1	XP_021331048.1	48.375	277	142	1	58	333
865	NP_001349069.1	XP_021331048.1	49.225	258	131	0	58	315
866	NP_001349069.1	XP_021331048.1	48.519	270	139	0	46	315
867	NP_001349069.1	XP_021331048.1	48.837	258	132	0	58	315
868	NP_001349069.1	XP_021331048.1	49.225	258	131	0	58	315
869	NP_001349069.1	XP_021331048.1	47.292	277	145	1	58	333
870	NP_001349069.1	XP_021331048.1	49.356	233	118	0	58	290
871	NP_001349069.1	XP_021331048.1	46.914	81	42	1	251	330
872	NP_001349069.1	XP_021331048.1	50.000	66	33	0	56	121
873	NP_001349069.1	XP_021327225.1	53.101	258	121	0	58	315
874	NP_001349069.1	XP_021327225.1	51.550	258	125	0	58	315
875	NP_001349069.1	XP_021327225.1	53.101	258	121	0	58	315
876	NP_001349069.1	XP_021327225.1	50.775	258	127	0	58	315
877	NP_001349069.1	XP_021327225.1	53.150	254	119	0	58	311
878	NP_001349069.1	XP_021327225.1	49.458	277	139	1	58	333
879	NP_001349069.1	XP_021327225.1	50.370	270	134	0	46	315
880	NP_001349069.1	XP_021327225.1	50.373	268	133	0	48	315
881	NP_001349069.1	XP_021327225.1	50.000	268	134	0	48	315
882	NP_001349069.1	XP_021327225.1	50.775	258	127	0	58	315
883	NP_001349069.1	XP_021327225.1	50.000	268	134	0	48	315
884	NP_001349069.1	XP_021327225.1	50.388	258	128	0	58	315
885	NP_001349069.1	XP_021327225.1	48.889	270	138	0	46	315
886	NP_001349069.1	XP_021327225.1	48.828	256	131	0	58	313

887	NP_001349069.1	XP_021327225.1	52.991	234	110	0	82	315
888	NP_001349069.1	XP_021331201.1	53.876	258	119	0	58	315
889	NP_001349069.1	XP_021331201.1	53.053	262	123	0	58	319
890	NP_001349069.1	XP_021331201.1	52.713	258	122	0	58	315
891	NP_001349069.1	XP_021331201.1	50.545	275	135	1	60	333
892	NP_001349069.1	XP_021331201.1	49.819	277	138	1	58	333
893	NP_001349069.1	XP_021331201.1	53.488	258	120	0	58	315
894	NP_001349069.1	XP_021331201.1	52.326	258	123	0	58	315
895	NP_001349069.1	XP_021331201.1	52.713	258	122	0	58	315
896	NP_001349069.1	XP_021331201.1	50.181	277	137	1	58	333
897	NP_001349069.1	XP_021331201.1	51.145	262	128	0	58	319
898	NP_001349069.1	XP_021331201.1	51.550	258	125	0	58	315
899	NP_001349069.1	XP_021331201.1	48.736	277	141	1	58	333
900	NP_001349069.1	XP_021331201.1	50.000	258	129	0	58	315
901	NP_001349069.1	XP_021331201.1	52.569	253	119	1	82	333
902	NP_001349069.1	XP_021331201.1	48.837	258	132	0	58	315
903	NP_001349069.1	XP_021331201.1	46.494	271	145	0	45	315
904	NP_001349069.1	XP_021331201.1	47.266	256	135	0	58	313
905	NP_001349069.1	XP_021331201.1	42.587	317	153	2	58	345
906	NP_001349069.1	XP_021331201.1	46.124	258	139	0	58	315
907	NP_001349069.1	XP_021331201.1	48.000	175	91	0	58	232
908	NP_001349069.1	XP_021331032.1	52.713	258	122	0	58	315
909	NP_001349069.1	XP_021331032.1	48.881	268	137	0	48	315
910	NP_001349069.1	XP_021331032.1	52.713	258	122	0	58	315
911	NP_001349069.1	XP_021331032.1	49.248	266	135	0	50	315
912	NP_001349069.1	XP_021331032.1	47.273	275	144	1	60	333
913	NP_001349069.1	XP_021331032.1	46.853	286	124	1	58	315
914	NP_001349069.1	XP_021331032.1	51.938	258	124	0	58	315
915	NP_001349069.1	XP_021331032.1	46.205	303	116	2	58	313
916	NP_001349069.1	XP_021331032.1	46.290	283	124	1	58	312
917	NP_001349069.1	XP_021331032.1	47.727	220	96	1	58	258
918	NP_001349069.1	XP_021331032.1	40.000	45	27	0	46	90
919	NP_001349069.1	XP_021331392.1	49.827	289	144	1	46	333
920	NP_001349069.1	XP_021331392.1	49.281	278	141	0	38	315
921	NP_001349069.1	XP_021331392.1	51.938	258	124	0	58	315
922	NP_001349069.1	XP_021331392.1	50.391	256	127	0	58	313
923	NP_001349069.1	XP_021331392.1	52.991	234	110	0	82	315
924	NP_001349069.1	XP_021331304.1	52.157	255	122	0	58	312
925	NP_001349069.1	XP_021331304.1	50.730	274	134	1	58	330
926	NP_001349069.1	XP_021331304.1	50.775	258	127	0	56	313
927	NP_001349069.1	XP_021331304.1	48.462	260	134	0	56	315
928	NP_001349069.1	XP_021331304.1	50.198	253	126	0	63	315
929	NP_001349069.1	XP_021331304.1	48.188	276	142	1	56	330

930	NP_001349069.1	XP_021331304.1	49.573	234	118	0	82	315
931	NP_001349069.1	XP_021331304.1	45.082	122	67	0	195	316
932	NP_001349069.1	XP_021331433.1	55.378	251	112	0	65	315
933	NP_001349069.1	XP_021331433.1	53.488	258	120	0	58	315
934	NP_001349069.1	XP_021331433.1	52.344	256	122	0	60	315
935	NP_001349069.1	XP_021331433.1	46.326	313	164	2	46	354
936	NP_001349069.1	XP_021331433.1	49.225	258	131	0	58	315
937	NP_001349069.1	XP_021331433.1	52.381	84	40	0	232	315
938	NP_001349069.1	NP_001307132.1	49.064	267	135	1	50	315
939	NP_001349069.1	NP_001307132.1	49.793	241	121	0	48	288
940	NP_001349069.1	NP_001307132.1	48.990	198	101	0	119	316
941	NP_001349069.1	NP_001307132.1	54.286	175	80	0	61	235
942	NP_001349069.1	NP_001307132.1	48.387	93	48	0	58	150
943	NP_001349069.1	XP_017211286.1	52.434	267	126	1	50	315
944	NP_001349069.1	XP_017211286.1	51.562	256	124	0	58	313
945	NP_001349069.1	XP_017211286.1	53.712	229	106	0	58	286
946	NP_001349069.1	XP_017211286.1	52.381	147	70	0	58	204
947	NP_001349069.1	XP_021331331.1	51.460	274	132	1	58	330
948	NP_001349069.1	XP_021331331.1	51.765	255	123	0	58	312
949	NP_001349069.1	XP_021331331.1	48.872	266	136	0	50	315
950	NP_001349069.1	XP_021331331.1	48.000	275	142	1	60	333
951	NP_001349069.1	XP_021331331.1	50.388	258	128	0	58	315
952	NP_001349069.1	XP_021331331.1	46.739	276	141	1	44	313
953	NP_001349069.1	XP_021331331.1	47.940	267	139	0	49	315
954	NP_001349069.1	XP_021331331.1	45.522	268	146	0	48	315
955	NP_001349069.1	XP_021331331.1	45.312	256	140	0	60	315
956	NP_001349069.1	XP_021331331.1	47.436	234	123	0	82	315
957	NP_001349069.1	XP_021331166.1	54.688	256	116	0	60	315
958	NP_001349069.1	XP_021331166.1	49.640	278	139	1	58	334
959	NP_001349069.1	XP_021331166.1	55.039	258	116	0	58	315
960	NP_001349069.1	XP_021331166.1	52.713	258	122	0	58	315
961	NP_001349069.1	XP_021331166.1	52.713	258	122	0	58	315
962	NP_001349069.1	XP_021331166.1	52.510	259	123	0	58	316
963	NP_001349069.1	XP_021331166.1	51.625	277	133	1	58	333
964	NP_001349069.1	XP_021331166.1	53.125	256	120	0	58	313
965	NP_001349069.1	XP_021331166.1	50.182	275	136	1	60	333
966	NP_001349069.1	XP_021331166.1	52.326	258	123	0	58	315
967	NP_001349069.1	XP_021331166.1	52.326	258	123	0	58	315
968	NP_001349069.1	XP_021331166.1	51.625	277	133	1	58	333
969	NP_001349069.1	XP_021331166.1	53.101	258	121	0	58	315
970	NP_001349069.1	XP_021331166.1	50.958	261	128	0	58	318
971	NP_001349069.1	XP_021331166.1	52.713	258	122	0	58	315
972	NP_001349069.1	XP_021331166.1	49.819	277	138	1	58	333

973	NP_001349069.1	XP_021331166.1	48.727	275	140	1	58	331
974	NP_001349069.1	XP_021331166.1	47.797	295	152	2	40	333
975	NP_001349069.1	XP_021331166.1	51.779	253	121	1	82	333
976	NP_001349069.1	XP_021331253.1	51.362	257	125	0	59	315
977	NP_001349069.1	XP_021331253.1	50.000	256	128	0	58	313
978	NP_001349069.1	XP_021331253.1	52.344	256	122	0	58	313
979	NP_001349069.1	XP_021331253.1	49.609	256	129	0	58	313
980	NP_001349069.1	XP_021331253.1	50.198	253	126	0	59	311
981	NP_001349069.1	XP_021331253.1	47.232	271	143	0	46	316
982	NP_001349069.1	XP_021331253.1	48.699	269	137	1	63	330
983	NP_001349069.1	XP_017211261.1	47.826	299	151	2	19	316
984	NP_001349069.1	XP_017211261.1	51.953	256	123	0	58	313
985	NP_001349069.1	XP_017211261.1	49.064	267	136	0	50	316
986	NP_001349069.1	XP_017211261.1	50.289	173	86	0	147	319
987	NP_001349069.1	XP_021331366.1	55.242	248	111	0	68	315
988	NP_001349069.1	XP_021331366.1	50.373	268	133	0	48	315
989	NP_001349069.1	XP_021331366.1	51.953	256	123	0	58	313
990	NP_001349069.1	XP_021331366.1	51.163	258	126	0	58	315
991	NP_001349069.1	XP_021331366.1	49.818	275	136	2	58	330
992	NP_001349069.1	XP_021331366.1	52.252	222	106	0	94	315
993	NP_001349069.1	XP_021331366.1	51.000	200	97	1	58	256
994	NP_001349069.1	XP_021331366.1	46.000	150	80	1	60	208
995	NP_001349069.1	XP_021331366.1	37.778	45	27	1	290	333
996	NP_001349069.1	XP_009298780.3	51.550	258	125	0	58	315
997	NP_001349069.1	XP_009298780.3	51.550	258	125	0	58	315
998	NP_001349069.1	XP_009298780.3	50.388	258	128	0	58	315
999	NP_001349069.1	XP_009298780.3	52.362	254	121	0	62	315
1000	NP_001349069.1	XP_009298780.3	50.965	259	127	0	58	316
1001	NP_001349069.1	XP_009298780.3	50.400	250	124	0	58	307
1002	NP_001349069.1	XP_009298780.3	50.661	227	112	0	90	316
1003	NP_001349069.1	XP_009298780.3	49.505	202	102	0	118	319
1004	NP_001349069.1	XP_021331165.1	54.264	258	118	0	58	315
1005	NP_001349069.1	XP_021331165.1	51.880	266	128	0	50	315
1006	NP_001349069.1	XP_021331165.1	53.543	254	118	0	58	311
1007	NP_001349069.1	XP_021331165.1	50.388	258	128	0	58	315
1008	NP_001349069.1	XP_021331165.1	50.965	259	127	0	58	316
1009	NP_001349069.1	XP_021331165.1	47.653	277	144	1	58	333
1010	NP_001349069.1	XP_021331165.1	49.810	263	131	1	58	319
1011	NP_001349069.1	XP_021331165.1	49.225	258	131	0	58	315
1012	NP_001349069.1	XP_021331165.1	49.807	259	130	0	58	316
1013	NP_001349069.1	XP_021331165.1	51.779	253	122	0	63	315
1014	NP_001349069.1	XP_021331165.1	50.391	256	127	0	58	313
1015	NP_001349069.1	XP_021331165.1	50.000	256	128	0	58	313

1016	NP_001349069.1	XP_021331165.1	48.438	256	132	0	60	315
1017	NP_001349069.1	XP_021331165.1	48.718	234	120	0	82	315
1018	NP_001349069.1	XP_021331323.1	50.775	258	127	0	58	315
1019	NP_001349069.1	XP_021331323.1	52.016	248	119	0	58	305
1020	NP_001349069.1	XP_021331323.1	51.489	235	114	0	81	315
1021	NP_001349069.1	XP_021331323.1	49.091	110	56	0	58	167
1022	NP_001349069.1	XP_017211176.1	51.145	262	122	1	58	313
1023	NP_001349069.1	XP_017211176.1	44.408	304	159	3	19	316
1024	NP_001349069.1	XP_017211176.1	52.423	227	108	0	93	319
1025	NP_001349069.1	XP_017211176.1	44.118	170	89	1	38	201
1026	NP_001349069.1	XP_021330537.1	52.734	256	121	0	60	315
1027	NP_001349069.1	XP_021330537.1	48.134	268	139	0	48	315
1028	NP_001349069.1	XP_021330537.1	50.187	267	132	1	50	315
1029	NP_001349069.1	XP_021330537.1	51.948	231	111	0	60	290
1030	NP_001349069.1	XP_021330537.1	48.529	204	105	0	58	261
1031	NP_001349069.1	XP_021330537.1	46.203	158	85	0	49	206
1032	NP_001349069.1	XP_021330537.1	47.863	117	61	0	200	316
1033	NP_001349069.1	XP_021326474.1	52.734	256	121	0	58	313
1034	NP_001349069.1	XP_021326474.1	50.769	260	128	0	58	317
1035	NP_001349069.1	XP_021326474.1	56.034	232	102	0	82	313
1036	NP_001349069.1	XP_021331239.1	49.635	274	137	1	58	330
1037	NP_001349069.1	XP_021331239.1	51.550	258	125	0	58	315
1038	NP_001349069.1	XP_021331239.1	51.550	258	125	0	58	315
1039	NP_001349069.1	XP_021331239.1	52.381	231	110	0	85	315
1040	NP_001349069.1	XP_021331239.1	51.724	232	112	0	58	289
1041	NP_001349069.1	XP_021331239.1	50.490	204	101	0	112	315
1042	NP_001349069.1	XP_021331239.1	50.000	74	37	0	49	122
1043	NP_001349069.1	XP_021331239.1	49.231	65	33	0	251	315
1044	NP_001349069.1	XP_021331041.1	49.814	269	134	1	63	330
1045	NP_001349069.1	XP_021331041.1	50.000	254	127	0	58	311
1046	NP_001349069.1	XP_021331041.1	48.954	239	122	0	58	296
1047	NP_001349069.1	XP_021331266.1	51.986	277	132	1	58	333
1048	NP_001349069.1	XP_021331266.1	52.708	277	130	1	58	333
1049	NP_001349069.1	XP_021331266.1	53.876	258	119	0	58	315
1050	NP_001349069.1	XP_021331266.1	52.434	267	127	0	49	315
1051	NP_001349069.1	XP_021331266.1	52.555	274	129	1	58	330
1052	NP_001349069.1	XP_021331266.1	53.876	258	119	0	58	315
1053	NP_001349069.1	XP_021331266.1	53.876	258	119	0	58	315
1054	NP_001349069.1	XP_021331266.1	50.903	277	135	1	58	333
1055	NP_001349069.1	XP_021331266.1	53.101	258	121	0	58	315
1056	NP_001349069.1	XP_021331266.1	53.876	258	119	0	58	315
1057	NP_001349069.1	XP_021331266.1	51.825	274	131	1	58	330
1058	NP_001349069.1	XP_021331266.1	53.101	258	121	0	58	315

1059	NP_001349069.1	XP_021331266.1	51.311	267	130	0	49	315
1060	NP_001349069.1	XP_021331266.1	51.625	277	133	1	58	333
1061	NP_001349069.1	XP_021331266.1	53.101	258	121	0	58	315
1062	NP_001349069.1	XP_021331266.1	52.713	258	122	0	58	315
1063	NP_001349069.1	XP_021331266.1	53.101	258	121	0	58	315
1064	NP_001349069.1	XP_021331266.1	48.951	286	145	1	49	333
1065	NP_001349069.1	XP_021331266.1	53.101	258	121	0	58	315
1066	NP_001349069.1	XP_021331266.1	51.737	259	125	0	58	316
1067	NP_001349069.1	XP_021331266.1	53.876	258	119	0	58	315
1068	NP_001349069.1	XP_021331266.1	53.101	258	121	0	58	315
1069	NP_001349069.1	XP_021331266.1	53.876	258	119	0	58	315
1070	NP_001349069.1	XP_021331266.1	53.101	258	121	0	58	315
1071	NP_001349069.1	XP_021331266.1	52.344	256	122	0	60	315
1072	NP_001349069.1	XP_021331266.1	51.938	258	124	0	58	315
1073	NP_001349069.1	XP_021331266.1	53.125	256	120	0	58	313
1074	NP_001349069.1	XP_021331266.1	51.880	266	128	0	50	315
1075	NP_001349069.1	XP_021331266.1	53.125	256	120	0	58	313
1076	NP_001349069.1	XP_021331266.1	51.938	258	124	0	58	315
1077	NP_001349069.1	XP_021331266.1	52.344	256	122	0	58	313
1078	NP_001349069.1	XP_021331266.1	50.181	277	137	1	58	333
1079	NP_001349069.1	XP_021331266.1	49.807	259	130	0	58	316
1080	NP_001349069.1	XP_021331266.1	51.953	256	123	0	58	313
1081	NP_001349069.1	XP_021331266.1	50.360	278	137	1	58	334
1082	NP_001349069.1	XP_021331266.1	53.101	258	121	0	58	315
1083	NP_001349069.1	XP_021331266.1	52.734	256	121	0	60	315
1084	NP_001349069.1	XP_021331266.1	51.938	258	124	0	58	315
1085	NP_001349069.1	XP_021331266.1	50.347	288	139	2	58	341
1086	NP_001349069.1	XP_021331266.1	52.326	258	123	0	58	315
1087	NP_001349069.1	XP_021331266.1	50.775	258	127	0	58	315
1088	NP_001349069.1	XP_021331266.1	50.719	278	136	1	58	334
1089	NP_001349069.1	XP_021331266.1	51.562	256	124	0	60	315
1090	NP_001349069.1	XP_021331266.1	51.163	258	126	0	58	315
1091	NP_001349069.1	XP_021331266.1	50.781	256	126	0	58	313
1092	NP_001349069.1	XP_021331266.1	50.000	258	129	0	58	315
1093	NP_001349069.1	XP_021331266.1	49.225	258	131	0	58	315
1094	NP_001349069.1	XP_021331266.1	48.507	268	138	0	48	315
1095	NP_001349069.1	XP_021331266.1	50.388	258	128	0	58	315
1096	NP_001349069.1	XP_021331266.1	51.938	258	124	0	58	315
1097	NP_001349069.1	XP_021331266.1	51.550	258	125	0	58	315
1098	NP_001349069.1	XP_021331266.1	51.938	258	124	0	58	315
1099	NP_001349069.1	XP_021331266.1	50.775	258	127	0	58	315
1100	NP_001349069.1	XP_021331266.1	51.172	256	125	0	58	313
1101	NP_001349069.1	XP_021331266.1	49.612	258	130	0	58	315

1102	NP_001349069.1	XP_021331266.1	50.752	266	131	0	50	315
1103	NP_001349069.1	XP_021331266.1	49.640	278	139	1	58	334
1104	NP_001349069.1	XP_021331266.1	48.450	258	133	0	58	315
1105	NP_001349069.1	XP_021331266.1	51.550	258	125	0	58	315
1106	NP_001349069.1	XP_021331266.1	48.828	256	131	0	58	313
1107	NP_001349069.1	XP_021331266.1	47.080	274	144	1	58	330
1108	NP_001349069.1	XP_021331266.1	45.455	319	165	3	21	330
1109	NP_001349069.1	XP_021331266.1	48.828	256	131	0	58	313
1110	NP_001349069.1	XP_021331266.1	46.154	286	126	1	58	315
1111	NP_001349069.1	XP_021331266.1	48.837	258	132	0	58	315
1112	NP_001349069.1	XP_021331266.1	50.000	258	129	0	58	315
1113	NP_001349069.1	XP_021331266.1	47.674	258	135	0	58	315
1114	NP_001349069.1	XP_021331266.1	46.763	278	142	1	44	315
1115	NP_001349069.1	XP_021331266.1	51.163	258	126	0	58	315
1116	NP_001349069.1	XP_021331266.1	50.775	258	127	0	58	315
1117	NP_001349069.1	XP_021331266.1	49.035	259	132	0	58	316
1118	NP_001349069.1	XP_021331266.1	48.450	258	133	0	58	315
1119	NP_001349069.1	XP_021331266.1	48.062	258	134	0	58	315
1120	NP_001349069.1	XP_021331266.1	49.225	258	131	0	58	315
1121	NP_001349069.1	XP_021331266.1	48.062	258	134	0	58	315
1122	NP_001349069.1	XP_021331266.1	44.403	268	149	0	48	315
1123	NP_001349069.1	XP_021331266.1	49.281	278	140	1	58	334
1124	NP_001349069.1	XP_021331266.1	48.047	256	133	0	58	313
1125	NP_001349069.1	XP_021331266.1	44.922	256	141	0	60	315
1126	NP_001349069.1	XP_021331266.1	43.015	272	154	1	63	333
1127	NP_001349069.1	XP_017211125.2	53.150	254	119	0	62	315
1128	NP_001349069.1	XP_017211125.2	50.000	262	131	0	58	319
1129	NP_001349069.1	XP_017211125.2	49.200	250	127	0	58	307
1130	NP_001349069.1	XP_021331140.1	49.826	287	115	2	58	315
1131	NP_001349069.1	XP_021331140.1	51.362	257	125	0	59	315
1132	NP_001349069.1	XP_021331140.1	51.163	258	126	0	58	315
1133	NP_001349069.1	XP_021331140.1	51.012	247	120	1	70	315
1134	NP_001349069.1	XP_021331140.1	51.948	231	111	0	60	290
1135	NP_001349069.1	XP_021331140.1	53.202	203	95	0	59	261
1136	NP_001349069.1	XP_021331140.1	52.841	176	83	0	58	233
1137	NP_001349069.1	XP_021331140.1	50.336	149	74	0	58	206
1138	NP_001349069.1	XP_021331425.1	50.388	258	128	0	58	315
1139	NP_001349069.1	XP_021331425.1	51.562	256	124	0	58	313
1140	NP_001349069.1	XP_021331425.1	51.550	258	125	0	58	315
1141	NP_001349069.1	XP_021331425.1	51.362	257	125	0	63	319
1142	NP_001349069.1	XP_021331425.1	48.276	232	120	0	58	289
1143	NP_001349069.1	XP_021331425.1	47.619	63	33	0	60	122
1144	NP_001349069.1	XP_021331110.1	54.264	258	118	0	58	315

1145	NP_001349069.1	XP_021331110.1	53.817	262	121	0	58	319
1146	NP_001349069.1	XP_021331110.1	46.535	303	154	2	21	315
1147	NP_001349069.1	XP_021331110.1	47.492	299	149	2	21	311
1148	NP_001349069.1	XP_021331110.1	50.903	277	135	1	58	333
1149	NP_001349069.1	XP_021331110.1	52.734	256	121	0	58	313
1150	NP_001349069.1	XP_021331110.1	52.290	262	125	0	58	319
1151	NP_001349069.1	XP_021331110.1	44.839	310	164	2	6	315
1152	NP_001349069.1	XP_021331110.1	49.458	277	139	1	58	333
1153	NP_001349069.1	XP_021331110.1	50.388	258	128	0	58	315
1154	NP_001349069.1	XP_021331110.1	51.163	258	126	0	58	315
1155	NP_001349069.1	XP_021331110.1	50.000	258	129	0	58	315
1156	NP_001349069.1	XP_021331110.1	47.445	274	144	0	46	319
1157	NP_001349069.1	XP_021331110.1	50.584	257	127	0	60	316
1158	NP_001349069.1	XP_021331110.1	50.000	260	130	0	56	315
1159	NP_001349069.1	XP_021331110.1	50.781	256	126	0	58	313
1160	NP_001349069.1	XP_021331110.1	51.172	256	125	0	58	313
1161	NP_001349069.1	XP_021331110.1	50.988	253	124	0	63	315
1162	NP_001349069.1	XP_021331110.1	49.027	257	131	0	59	315
1163	NP_001349069.1	XP_021331413.1	52.222	270	129	0	46	315
1164	NP_001349069.1	XP_021331413.1	54.651	258	117	0	58	315
1165	NP_001349069.1	XP_021331413.1	55.039	258	116	0	58	315
1166	NP_001349069.1	XP_021331413.1	51.481	270	131	0	46	315
1167	NP_001349069.1	XP_021331413.1	53.876	258	119	0	58	315
1168	NP_001349069.1	XP_021331413.1	52.060	267	128	0	49	315
1169	NP_001349069.1	XP_021331413.1	52.713	258	122	0	58	315
1170	NP_001349069.1	XP_021331413.1	53.876	258	119	0	58	315
1171	NP_001349069.1	XP_021331413.1	53.516	256	119	0	58	313
1172	NP_001349069.1	XP_021331413.1	53.488	258	120	0	58	315
1173	NP_001349069.1	XP_021331413.1	52.713	258	122	0	58	315
1174	NP_001349069.1	XP_021331413.1	53.101	258	121	0	58	315
1175	NP_001349069.1	XP_021331413.1	49.477	287	145	0	29	315
1176	NP_001349069.1	XP_021331413.1	51.481	270	131	0	46	315
1177	NP_001349069.1	XP_021331413.1	52.713	258	122	0	58	315
1178	NP_001349069.1	XP_021331413.1	53.101	258	121	0	58	315
1179	NP_001349069.1	XP_021331413.1	49.630	270	136	0	46	315
1180	NP_001349069.1	XP_021331413.1	52.326	258	123	0	58	315
1181	NP_001349069.1	XP_021331413.1	50.542	277	134	1	58	334
1182	NP_001349069.1	XP_021331413.1	51.938	258	124	0	58	315
1183	NP_001349069.1	XP_021331413.1	47.735	287	150	0	29	315
1184	NP_001349069.1	XP_021331413.1	52.713	258	122	0	58	315
1185	NP_001349069.1	XP_021331413.1	52.941	238	112	0	76	313
1186	NP_001349069.1	XP_021331413.1	47.429	175	91	1	160	333
1187	NP_001349069.1	XP_021329626.1	52.734	256	121	0	60	315

1188	NP_001349069.1	XP_021329626.1	48.134	268	139	0	48	315
1189	NP_001349069.1	XP_021329626.1	49.813	267	133	1	50	315
1190	NP_001349069.1	XP_021329626.1	51.724	232	112	0	60	291
1191	NP_001349069.1	XP_021329626.1	48.529	204	105	0	58	261
1192	NP_001349069.1	XP_021329626.1	46.203	158	85	0	49	206
1193	NP_001349069.1	XP_021329626.1	46.721	122	65	0	58	179
1194	NP_001349069.1	XP_021329626.1	47.863	117	61	0	200	316
1195	NP_001349069.1	XP_021329625.1	52.734	256	121	0	60	315
1196	NP_001349069.1	XP_021329625.1	48.134	268	139	0	48	315
1197	NP_001349069.1	XP_021329625.1	49.813	267	133	1	50	315
1198	NP_001349069.1	XP_021329625.1	51.724	232	112	0	60	291
1199	NP_001349069.1	XP_021329625.1	48.529	204	105	0	58	261
1200	NP_001349069.1	XP_021329625.1	46.203	158	85	0	49	206
1201	NP_001349069.1	XP_021329625.1	46.721	122	65	0	58	179
1202	NP_001349069.1	XP_021329625.1	47.863	117	61	0	200	316
1203	NP_001349069.1	XP_021329624.1	52.734	256	121	0	60	315
1204	NP_001349069.1	XP_021329624.1	48.134	268	139	0	48	315
1205	NP_001349069.1	XP_021329624.1	49.813	267	133	1	50	315
1206	NP_001349069.1	XP_021329624.1	51.724	232	112	0	60	291
1207	NP_001349069.1	XP_021329624.1	48.529	204	105	0	58	261
1208	NP_001349069.1	XP_021329624.1	46.203	158	85	0	49	206
1209	NP_001349069.1	XP_021329624.1	46.721	122	65	0	58	179
1210	NP_001349069.1	XP_021329624.1	47.863	117	61	0	200	316
1211	NP_001349069.1	XP_021329623.1	52.734	256	121	0	60	315
1212	NP_001349069.1	XP_021329623.1	48.134	268	139	0	48	315
1213	NP_001349069.1	XP_021329623.1	49.813	267	133	1	50	315
1214	NP_001349069.1	XP_021329623.1	51.724	232	112	0	60	291
1215	NP_001349069.1	XP_021329623.1	48.529	204	105	0	58	261
1216	NP_001349069.1	XP_021329623.1	46.203	158	85	0	49	206
1217	NP_001349069.1	XP_021329623.1	46.721	122	65	0	58	179
1218	NP_001349069.1	XP_021329623.1	47.863	117	61	0	200	316
1219	NP_001349069.1	XP_005157357.4	53.125	256	120	0	60	315
1220	NP_001349069.1	XP_005157357.4	51.264	277	134	1	58	333
1221	NP_001349069.1	XP_005157357.4	53.876	258	119	0	58	315
1222	NP_001349069.1	XP_005157357.4	53.101	258	121	0	58	315
1223	NP_001349069.1	XP_005157357.4	51.550	258	125	0	58	315
1224	NP_001349069.1	XP_005157357.4	52.734	256	121	0	60	315
1225	NP_001349069.1	XP_005157357.4	45.752	306	158	2	18	315
1226	NP_001349069.1	XP_005157357.4	50.730	274	134	1	58	330
1227	NP_001349069.1	XP_005157357.4	51.163	258	126	0	58	315
1228	NP_001349069.1	XP_005157357.4	50.187	267	133	0	49	315
1229	NP_001349069.1	XP_005157357.4	51.394	251	122	0	65	315
1230	NP_001349069.1	XP_005157357.4	51.931	233	112	0	58	290

1231	NP_001349069.1	XP_005157357.4	47.867	211	109	1	121	330
1232	NP_001349069.1	XP_009299203.2	50.000	270	135	0	46	315
1233	NP_001349069.1	XP_009299203.2	51.969	254	122	0	60	313
1234	NP_001349069.1	XP_009299203.2	49.064	267	136	0	49	315
1235	NP_001349069.1	XP_009299203.2	48.905	274	139	1	40	313
1236	NP_001349069.1	XP_009299203.2	51.550	258	125	0	58	315
1237	NP_001349069.1	XP_009299203.2	51.550	258	125	0	58	315
1238	NP_001349069.1	XP_009299203.2	55.365	233	104	0	58	290
1239	NP_001349069.1	XP_009299203.2	50.000	256	128	0	60	315
1240	NP_001349069.1	XP_009299203.2	43.493	292	160	1	24	315
1241	NP_001349069.1	XP_021327017.1	50.000	268	134	0	48	315
1242	NP_001349069.1	XP_021327017.1	47.703	283	148	0	28	310
1243	NP_001349069.1	XP_021327017.1	50.000	258	129	0	58	315
1244	NP_001349069.1	XP_021327017.1	49.219	256	130	0	60	315
1245	NP_001349069.1	XP_021327017.1	48.649	259	132	1	58	315
1246	NP_001349069.1	XP_021327017.1	47.234	235	124	0	81	315
1247	NP_001349069.1	XP_021327016.1	50.000	268	134	0	48	315
1248	NP_001349069.1	XP_021327016.1	47.703	283	148	0	28	310
1249	NP_001349069.1	XP_021327016.1	50.000	258	129	0	58	315
1250	NP_001349069.1	XP_021327016.1	49.219	256	130	0	60	315
1251	NP_001349069.1	XP_021327016.1	48.649	259	132	1	58	315
1252	NP_001349069.1	XP_021327016.1	47.234	235	124	0	81	315
1253	NP_001349069.1	XP_021327015.1	50.000	268	134	0	48	315
1254	NP_001349069.1	XP_021327015.1	47.703	283	148	0	28	310
1255	NP_001349069.1	XP_021327015.1	50.000	258	129	0	58	315
1256	NP_001349069.1	XP_021327015.1	49.219	256	130	0	60	315
1257	NP_001349069.1	XP_021327015.1	48.649	259	132	1	58	315
1258	NP_001349069.1	XP_021327015.1	47.234	235	124	0	81	315
1259	NP_001349069.1	XP_021327014.1	50.000	268	134	0	48	315
1260	NP_001349069.1	XP_021327014.1	47.703	283	148	0	28	310
1261	NP_001349069.1	XP_021327014.1	50.000	258	129	0	58	315
1262	NP_001349069.1	XP_021327014.1	49.219	256	130	0	60	315
1263	NP_001349069.1	XP_021327014.1	48.649	259	132	1	58	315
1264	NP_001349069.1	XP_021327014.1	47.234	235	124	0	81	315
1265	NP_001349069.1	XP_021327013.1	50.000	268	134	0	48	315
1266	NP_001349069.1	XP_021327013.1	47.703	283	148	0	28	310
1267	NP_001349069.1	XP_021327013.1	50.000	258	129	0	58	315
1268	NP_001349069.1	XP_021327013.1	49.219	256	130	0	60	315
1269	NP_001349069.1	XP_021327013.1	48.649	259	132	1	58	315
1270	NP_001349069.1	XP_021327013.1	47.234	235	124	0	81	315
1271	NP_001349069.1	XP_021330522.1	50.000	268	134	0	48	315
1272	NP_001349069.1	XP_021330522.1	47.703	283	148	0	28	310
1273	NP_001349069.1	XP_021330522.1	50.000	258	129	0	58	315

1274	NP_001349069.1	XP_021330522.1	49.219	256	130	0	60	315
1275	NP_001349069.1	XP_021330522.1	48.649	259	132	1	58	315
1276	NP_001349069.1	XP_021330522.1	47.234	235	124	0	81	315
1277	NP_001349069.1	XP_021330519.1	50.000	268	134	0	48	315
1278	NP_001349069.1	XP_021330519.1	47.703	283	148	0	28	310
1279	NP_001349069.1	XP_021330519.1	50.000	258	129	0	58	315
1280	NP_001349069.1	XP_021330519.1	49.219	256	130	0	60	315
1281	NP_001349069.1	XP_021330519.1	48.649	259	132	1	58	315
1282	NP_001349069.1	XP_021330519.1	47.234	235	124	0	81	315
1283	NP_001349069.1	XP_021330517.1	50.000	268	134	0	48	315
1284	NP_001349069.1	XP_021330517.1	47.703	283	148	0	28	310
1285	NP_001349069.1	XP_021330517.1	50.000	258	129	0	58	315
1286	NP_001349069.1	XP_021330517.1	49.219	256	130	0	60	315
1287	NP_001349069.1	XP_021330517.1	48.649	259	132	1	58	315
1288	NP_001349069.1	XP_021330517.1	47.234	235	124	0	81	315
1289	NP_001349069.1	XP_021330516.1	50.000	268	134	0	48	315
1290	NP_001349069.1	XP_021330516.1	47.703	283	148	0	28	310
1291	NP_001349069.1	XP_021330516.1	50.000	258	129	0	58	315
1292	NP_001349069.1	XP_021330516.1	49.219	256	130	0	60	315
1293	NP_001349069.1	XP_021330516.1	48.649	259	132	1	58	315
1294	NP_001349069.1	XP_021330516.1	47.234	235	124	0	81	315
1295	NP_001349069.1	XP_021330515.1	50.000	268	134	0	48	315
1296	NP_001349069.1	XP_021330515.1	47.703	283	148	0	28	310
1297	NP_001349069.1	XP_021330515.1	50.000	258	129	0	58	315
1298	NP_001349069.1	XP_021330515.1	49.219	256	130	0	60	315
1299	NP_001349069.1	XP_021330515.1	48.649	259	132	1	58	315
1300	NP_001349069.1	XP_021330515.1	47.234	235	124	0	81	315
1301	NP_001349069.1	XP_021330514.1	50.000	268	134	0	48	315
1302	NP_001349069.1	XP_021330514.1	47.703	283	148	0	28	310
1303	NP_001349069.1	XP_021330514.1	50.000	258	129	0	58	315
1304	NP_001349069.1	XP_021330514.1	49.219	256	130	0	60	315
1305	NP_001349069.1	XP_021330514.1	48.649	259	132	1	58	315
1306	NP_001349069.1	XP_021330514.1	47.234	235	124	0	81	315
1307	NP_001349069.1	XP_017211227.1	48.485	297	148	3	50	341
1308	NP_001349069.1	XP_021330521.1	50.000	268	134	0	48	315
1309	NP_001349069.1	XP_021330521.1	47.703	283	148	0	28	310
1310	NP_001349069.1	XP_021330521.1	50.000	258	129	0	58	315
1311	NP_001349069.1	XP_021330521.1	49.219	256	130	0	60	315
1312	NP_001349069.1	XP_021330521.1	48.649	259	132	1	58	315
1313	NP_001349069.1	XP_021330521.1	47.234	235	124	0	81	315
1314	NP_001349069.1	XP_021330520.1	50.000	268	134	0	48	315
1315	NP_001349069.1	XP_021330520.1	47.703	283	148	0	28	310
1316	NP_001349069.1	XP_021330520.1	50.000	258	129	0	58	315

1317	NP_001349069.1	XP_021330520.1	49.219	256	130	0	60	315
1318	NP_001349069.1	XP_021330520.1	48.649	259	132	1	58	315
1319	NP_001349069.1	XP_021330520.1	47.234	235	124	0	81	315
1320	NP_001349069.1	XP_021330518.1	50.000	268	134	0	48	315
1321	NP_001349069.1	XP_021330518.1	47.703	283	148	0	28	310
1322	NP_001349069.1	XP_021330518.1	50.000	258	129	0	58	315
1323	NP_001349069.1	XP_021330518.1	49.219	256	130	0	60	315
1324	NP_001349069.1	XP_021330518.1	48.649	259	132	1	58	315
1325	NP_001349069.1	XP_021330518.1	47.234	235	124	0	81	315
1326	NP_001349069.1	XP_021327003.1	55.039	258	116	0	58	315
1327	NP_001349069.1	XP_021327003.1	55.212	259	116	0	58	316
1328	NP_001349069.1	XP_021327003.1	53.488	258	120	0	58	315
1329	NP_001349069.1	XP_021327003.1	52.256	266	127	0	50	315
1330	NP_001349069.1	XP_021327003.1	51.880	266	128	0	50	315
1331	NP_001349069.1	XP_021327003.1	53.488	258	120	0	58	315
1332	NP_001349069.1	XP_021327003.1	45.317	331	160	4	6	315
1333	NP_001349069.1	XP_021327003.1	52.326	258	123	0	58	315
1334	NP_001349069.1	XP_021327003.1	53.125	256	120	0	58	313
1335	NP_001349069.1	XP_021327003.1	48.951	286	118	1	58	315
1336	NP_001349069.1	XP_021327003.1	52.713	258	122	0	58	315
1337	NP_001349069.1	XP_021327003.1	50.388	258	128	0	58	315
1338	NP_001349069.1	XP_021327003.1	51.938	258	124	0	58	315
1339	NP_001349069.1	XP_021327003.1	50.775	258	127	0	58	315
1340	NP_001349069.1	XP_021327003.1	51.163	258	126	0	58	315
1341	NP_001349069.1	XP_021327003.1	51.562	256	124	0	58	313
1342	NP_001349069.1	XP_021327003.1	52.734	256	121	0	60	315
1343	NP_001349069.1	XP_021327003.1	48.339	271	140	0	49	319
1344	NP_001349069.1	XP_021327003.1	51.953	256	123	0	60	315
1345	NP_001349069.1	XP_021327003.1	51.172	256	125	0	60	315
1346	NP_001349069.1	XP_021327003.1	51.953	256	123	0	58	313
1347	NP_001349069.1	XP_021327003.1	49.438	267	135	0	49	315
1348	NP_001349069.1	XP_021327003.1	52.326	258	123	0	58	315
1349	NP_001349069.1	XP_021327003.1	51.550	258	125	0	58	315
1350	NP_001349069.1	XP_021327003.1	51.351	259	126	0	58	316
1351	NP_001349069.1	XP_021327003.1	48.540	274	140	1	58	330
1352	NP_001349069.1	XP_021327003.1	51.163	258	126	0	58	315
1353	NP_001349069.1	XP_021327003.1	50.000	258	129	0	58	315
1354	NP_001349069.1	XP_021327003.1	50.781	256	126	0	58	313
1355	NP_001349069.1	XP_021327003.1	48.837	258	132	0	58	315
1356	NP_001349069.1	XP_021327003.1	49.612	258	130	0	58	315
1357	NP_001349069.1	XP_021327003.1	48.638	257	132	0	60	316
1358	NP_001349069.1	XP_021327003.1	51.948	231	111	0	60	290
1359	NP_001349069.1	XP_021327003.1	46.043	278	149	1	39	315

1360	NP_001349069.1	XP_021327003.1	48.529	204	105	0	58	261
1361	NP_001349069.1	XP_021327003.1	46.203	158	85	0	49	206
1362	NP_001349069.1	XP_021330542.1	55.039	258	116	0	58	315
1363	NP_001349069.1	XP_021330542.1	55.212	259	116	0	58	316
1364	NP_001349069.1	XP_021330542.1	53.488	258	120	0	58	315
1365	NP_001349069.1	XP_021330542.1	52.256	266	127	0	50	315
1366	NP_001349069.1	XP_021330542.1	51.880	266	128	0	50	315
1367	NP_001349069.1	XP_021330542.1	53.488	258	120	0	58	315
1368	NP_001349069.1	XP_021330542.1	45.317	331	160	4	6	315
1369	NP_001349069.1	XP_021330542.1	52.326	258	123	0	58	315
1370	NP_001349069.1	XP_021330542.1	53.125	256	120	0	58	313
1371	NP_001349069.1	XP_021330542.1	48.951	286	118	1	58	315
1372	NP_001349069.1	XP_021330542.1	52.713	258	122	0	58	315
1373	NP_001349069.1	XP_021330542.1	50.388	258	128	0	58	315
1374	NP_001349069.1	XP_021330542.1	51.938	258	124	0	58	315
1375	NP_001349069.1	XP_021330542.1	50.775	258	127	0	58	315
1376	NP_001349069.1	XP_021330542.1	51.163	258	126	0	58	315
1377	NP_001349069.1	XP_021330542.1	51.562	256	124	0	58	313
1378	NP_001349069.1	XP_021330542.1	52.734	256	121	0	60	315
1379	NP_001349069.1	XP_021330542.1	48.339	271	140	0	49	319
1380	NP_001349069.1	XP_021330542.1	51.953	256	123	0	60	315
1381	NP_001349069.1	XP_021330542.1	51.172	256	125	0	60	315
1382	NP_001349069.1	XP_021330542.1	51.953	256	123	0	58	313
1383	NP_001349069.1	XP_021330542.1	49.438	267	135	0	49	315
1384	NP_001349069.1	XP_021330542.1	52.326	258	123	0	58	315
1385	NP_001349069.1	XP_021330542.1	51.550	258	125	0	58	315
1386	NP_001349069.1	XP_021330542.1	51.351	259	126	0	58	316
1387	NP_001349069.1	XP_021330542.1	48.540	274	140	1	58	330
1388	NP_001349069.1	XP_021330542.1	51.163	258	126	0	58	315
1389	NP_001349069.1	XP_021330542.1	50.000	258	129	0	58	315
1390	NP_001349069.1	XP_021330542.1	50.781	256	126	0	58	313
1391	NP_001349069.1	XP_021330542.1	48.837	258	132	0	58	315
1392	NP_001349069.1	XP_021330542.1	49.612	258	130	0	58	315
1393	NP_001349069.1	XP_021330542.1	48.638	257	132	0	60	316
1394	NP_001349069.1	XP_021330542.1	51.948	231	111	0	60	290
1395	NP_001349069.1	XP_021330542.1	46.043	278	149	1	39	315
1396	NP_001349069.1	XP_021330542.1	48.529	204	105	0	58	261
1397	NP_001349069.1	XP_021330542.1	46.203	158	85	0	49	206
1398	NP_001349069.1	XP_017211012.2	53.668	259	120	0	58	316
1399	NP_001349069.1	XP_017211012.2	52.326	258	123	0	58	315
1400	NP_001349069.1	XP_017211012.2	52.326	258	123	0	58	315
1401	NP_001349069.1	XP_017211012.2	52.734	256	121	0	60	315
1402	NP_001349069.1	XP_017211012.2	49.807	259	130	0	58	316

1403	NP_001349069.1	XP_017211012.2	46.205	303	155	2	21	315
1404	NP_001349069.1	XP_017211012.2	52.326	258	123	0	58	315
1405	NP_001349069.1	XP_017211012.2	51.938	258	124	0	58	315
1406	NP_001349069.1	XP_017211012.2	52.326	258	123	0	58	315
1407	NP_001349069.1	XP_017211012.2	52.713	258	122	0	58	315
1408	NP_001349069.1	XP_017211012.2	49.064	267	136	0	50	316
1409	NP_001349069.1	XP_017211012.2	50.775	258	127	0	58	315
1410	NP_001349069.1	XP_017211012.2	50.579	259	128	0	58	316
1411	NP_001349069.1	XP_017211012.2	50.775	258	127	0	58	315
1412	NP_001349069.1	XP_017211012.2	49.219	256	130	0	60	315
1413	NP_001349069.1	XP_017211012.2	49.035	259	132	0	58	316
1414	NP_001349069.1	XP_017211012.2	49.612	258	130	0	58	315
1415	NP_001349069.1	XP_017211012.2	50.781	256	126	0	60	315
1416	NP_001349069.1	XP_017211012.2	48.837	258	132	0	58	315
1417	NP_001349069.1	XP_017211012.2	47.183	284	126	1	60	319
1418	NP_001349069.1	XP_017211012.2	46.403	278	149	0	38	315
1419	NP_001349069.1	XP_017211012.2	44.127	315	171	3	21	330
1420	NP_001349069.1	XP_017211012.2	50.558	269	132	1	51	318
1421	NP_001349069.1	XP_017211012.2	48.062	258	134	0	58	315
1422	NP_001349069.1	XP_017211012.2	47.566	267	136	1	49	315
1423	NP_001349069.1	XP_017211012.2	49.200	250	127	0	58	307
1424	NP_001349069.1	XP_017211012.2	48.473	262	135	0	58	319
1425	NP_001349069.1	XP_017211012.2	48.221	253	131	0	58	310
1426	NP_001349069.1	XP_017211012.2	42.258	310	127	2	58	315
1427	NP_001349069.1	XP_017211012.2	48.963	241	122	1	91	330
1428	NP_001349069.1	XP_021331400.1	51.625	277	133	1	58	333
1429	NP_001349069.1	XP_021331400.1	53.125	256	120	0	60	315
1430	NP_001349069.1	XP_021331400.1	50.542	277	136	1	58	333
1431	NP_001349069.1	XP_021331400.1	45.875	303	163	1	28	329
1432	NP_001349069.1	XP_021331400.1	53.053	262	123	0	58	319
1433	NP_001349069.1	XP_021331400.1	52.290	262	125	0	58	319
1434	NP_001349069.1	XP_021331400.1	47.973	296	147	2	45	333
1435	NP_001349069.1	XP_021331400.1	51.938	258	124	0	58	315
1436	NP_001349069.1	XP_021331400.1	52.344	256	122	0	58	313
1437	NP_001349069.1	XP_021331400.1	52.964	253	119	0	58	310
1438	NP_001349069.1	XP_021331400.1	52.713	258	122	0	58	315
1439	NP_001349069.1	XP_021331400.1	46.326	313	154	3	21	319
1440	NP_001349069.1	XP_021331400.1	52.326	258	123	0	58	315
1441	NP_001349069.1	XP_021331400.1	52.326	258	123	0	58	315
1442	NP_001349069.1	XP_021331400.1	53.053	262	123	0	58	319
1443	NP_001349069.1	XP_021331400.1	46.602	309	136	2	50	329
1444	NP_001349069.1	XP_021331400.1	51.550	258	125	0	58	315
1445	NP_001349069.1	XP_021331400.1	52.713	258	122	0	58	315

1446	NP_001349069.1	XP_021331400.1	47.552	286	149	1	46	330
1447	NP_001349069.1	XP_021331400.1	50.388	258	128	0	58	315
1448	NP_001349069.1	XP_021331400.1	50.763	262	129	0	58	319
1449	NP_001349069.1	XP_021331400.1	50.965	259	127	0	58	316
1450	NP_001349069.1	XP_021331400.1	51.550	258	125	0	58	315
1451	NP_001349069.1	XP_021331400.1	52.157	255	122	0	61	315
1452	NP_001349069.1	XP_021331400.1	44.295	298	165	1	19	315
1453	NP_001349069.1	XP_021331400.1	46.302	311	132	2	58	333
1454	NP_001349069.1	XP_021331400.1	53.125	256	120	0	58	313
1455	NP_001349069.1	XP_021331400.1	48.736	277	141	1	58	333
1456	NP_001349069.1	XP_021331400.1	48.029	279	139	1	44	316
1457	NP_001349069.1	XP_021331400.1	49.643	280	134	2	58	330
1458	NP_001349069.1	XP_021331400.1	46.205	303	134	2	58	331
1459	NP_001349069.1	XP_021331400.1	50.388	258	128	0	58	315
1460	NP_001349069.1	XP_021331400.1	49.804	255	128	0	61	315
1461	NP_001349069.1	XP_021331400.1	51.163	258	126	0	58	315
1462	NP_001349069.1	XP_021331400.1	48.837	258	132	0	58	315
1463	NP_001349069.1	XP_021331400.1	48.718	273	134	1	49	315
1464	NP_001349069.1	XP_021331400.1	47.674	258	135	0	58	315
1465	NP_001349069.1	XP_021331400.1	46.899	258	137	0	58	315
1466	NP_001349069.1	XP_021331400.1	50.667	150	74	0	58	207
1467	NP_001349069.1	XP_021331158.1	51.737	259	125	0	58	316
1468	NP_001349069.1	XP_021331158.1	49.826	287	144	0	29	315
1469	NP_001349069.1	XP_021331158.1	48.601	286	119	1	58	315
1470	NP_001349069.1	XP_021331158.1	51.163	258	126	0	58	315
1471	NP_001349069.1	XP_021331158.1	51.351	259	125	1	58	316
1472	NP_001349069.1	XP_021331158.1	50.388	258	128	0	58	315
1473	NP_001349069.1	XP_021331158.1	51.004	249	120	2	82	329
1474	NP_001349069.1	XP_021326773.1	52.326	258	123	0	58	315
1475	NP_001349069.1	XP_021326773.1	52.326	258	123	0	58	315
1476	NP_001349069.1	XP_021326773.1	52.941	255	120	0	58	312
1477	NP_001349069.1	XP_021326773.1	51.953	256	123	0	60	315
1478	NP_001349069.1	XP_021326773.1	51.163	258	126	0	58	315
1479	NP_001349069.1	XP_021326773.1	51.163	258	126	0	58	315
1480	NP_001349069.1	XP_021326773.1	50.391	256	127	0	60	315
1481	NP_001349069.1	XP_021326773.1	50.806	248	122	0	68	315
1482	NP_001349069.1	XP_021326773.1	51.802	222	107	0	94	315
1483	NP_001349069.1	XP_021331338.1	50.923	271	133	0	46	316
1484	NP_001349069.1	XP_021331338.1	50.181	277	137	1	58	333
1485	NP_001349069.1	XP_021331338.1	51.550	258	125	0	58	315
1486	NP_001349069.1	XP_021331338.1	51.938	258	124	0	58	315
1487	NP_001349069.1	XP_021331338.1	51.351	259	124	2	58	315
1488	NP_001349069.1	XP_021331338.1	50.000	258	129	0	58	315

1489	NP_001349069.1	XP_021331338.1	51.163	258	126	0	58	315
1490	NP_001349069.1	XP_021331338.1	49.097	277	140	1	58	333
1491	NP_001349069.1	XP_021331338.1	51.562	256	124	0	58	313
1492	NP_001349069.1	XP_021331338.1	50.775	258	127	0	58	315
1493	NP_001349069.1	XP_021331338.1	49.225	258	131	0	58	315
1494	NP_001349069.1	XP_021331338.1	49.012	253	129	0	63	315
1495	NP_001349069.1	XP_021331338.1	44.840	281	149	2	40	315
1496	NP_001349069.1	XP_021331338.1	44.144	111	56	2	49	158
1497	NP_001349069.1	XP_017211225.1	49.451	273	132	1	50	316
1498	NP_001349069.1	XP_017211225.1	45.246	305	156	3	19	316
1499	NP_001349069.1	XP_017211225.1	49.145	234	113	1	58	285
1500	NP_001349069.1	XP_017211225.1	50.661	227	112	0	93	319
1501	NP_001349069.1	XP_021327156.1	50.181	277	137	1	58	333
1502	NP_001349069.1	XP_021327156.1	51.163	258	126	0	58	315
1503	NP_001349069.1	XP_021327156.1	51.938	258	124	0	58	315
1504	NP_001349069.1	XP_021327156.1	50.388	258	128	0	58	315
1505	NP_001349069.1	XP_021327156.1	48.679	265	136	0	49	313
1506	NP_001349069.1	XP_021327156.1	50.855	234	115	0	58	291
1507	NP_001349069.1	XP_021327156.1	48.469	196	101	0	120	315
1508	NP_001349069.1	XP_021327156.1	51.748	143	69	0	171	313
1509	NP_001349069.1	XP_021327156.1	44.643	56	31	0	261	316
1510	NP_001349069.1	XP_021331020.1	50.526	285	139	1	33	315
1511	NP_001349069.1	XP_021331020.1	53.817	262	121	0	58	319
1512	NP_001349069.1	XP_021331020.1	55.039	258	116	0	58	315
1513	NP_001349069.1	XP_021331020.1	54.651	258	117	0	58	315
1514	NP_001349069.1	XP_021331020.1	54.651	258	117	0	58	315
1515	NP_001349069.1	XP_021331020.1	52.364	275	128	2	58	329
1516	NP_001349069.1	XP_021331020.1	53.462	260	119	1	58	315
1517	NP_001349069.1	XP_021331020.1	50.903	277	135	1	58	333
1518	NP_001349069.1	XP_021331020.1	54.264	258	118	0	58	315
1519	NP_001349069.1	XP_021331020.1	52.713	258	122	0	58	315
1520	NP_001349069.1	XP_021331020.1	53.101	258	121	0	58	315
1521	NP_001349069.1	XP_021331020.1	49.827	289	143	1	33	319
1522	NP_001349069.1	XP_021331020.1	53.488	258	120	0	58	315
1523	NP_001349069.1	XP_021331020.1	52.874	261	123	0	58	318
1524	NP_001349069.1	XP_021331020.1	50.730	274	134	1	58	330
1525	NP_001349069.1	XP_021331020.1	52.713	258	122	0	58	315
1526	NP_001349069.1	XP_021331020.1	51.311	267	130	0	49	315
1527	NP_001349069.1	XP_021331020.1	53.053	262	123	0	58	319
1528	NP_001349069.1	XP_021331020.1	51.504	266	129	0	50	315
1529	NP_001349069.1	XP_021331020.1	52.326	258	123	0	58	315
1530	NP_001349069.1	XP_021331020.1	53.101	258	121	0	58	315
1531	NP_001349069.1	XP_021331020.1	52.672	262	124	0	58	319

1532	NP_001349069.1	XP_021331020.1	52.713	258	122	0	58	315
1533	NP_001349069.1	XP_021331020.1	52.326	258	123	0	58	315
1534	NP_001349069.1	XP_021331020.1	52.713	258	122	0	58	315
1535	NP_001349069.1	XP_021331020.1	51.550	258	125	0	58	315
1536	NP_001349069.1	XP_021331020.1	52.713	258	122	0	58	315
1537	NP_001349069.1	XP_021331020.1	53.516	256	119	0	58	313
1538	NP_001349069.1	XP_021331020.1	53.488	258	120	0	58	315
1539	NP_001349069.1	XP_021331020.1	52.713	258	122	0	58	315
1540	NP_001349069.1	XP_021331020.1	53.101	258	121	0	58	315
1541	NP_001349069.1	XP_021331020.1	54.054	259	119	0	58	316
1542	NP_001349069.1	XP_021331020.1	52.326	258	123	0	58	315
1543	NP_001349069.1	XP_021331020.1	51.128	266	130	0	50	315
1544	NP_001349069.1	XP_021331020.1	51.550	258	125	0	58	315
1545	NP_001349069.1	XP_021331020.1	51.527	262	127	0	58	319
1546	NP_001349069.1	XP_021331020.1	51.938	258	124	0	58	315
1547	NP_001349069.1	XP_021331020.1	48.443	289	148	1	46	333
1548	NP_001349069.1	XP_021331020.1	51.550	258	125	0	58	315
1549	NP_001349069.1	XP_021331020.1	50.730	274	134	1	58	330
1550	NP_001349069.1	XP_021331020.1	51.953	256	123	0	58	313
1551	NP_001349069.1	XP_021331020.1	52.326	258	123	0	58	315
1552	NP_001349069.1	XP_021331020.1	52.326	258	123	0	58	315
1553	NP_001349069.1	XP_021331020.1	51.550	258	125	0	58	315
1554	NP_001349069.1	XP_021331020.1	51.163	258	126	0	58	315
1555	NP_001349069.1	XP_021331020.1	51.938	258	124	0	58	315
1556	NP_001349069.1	XP_021331020.1	48.201	278	144	0	38	315
1557	NP_001349069.1	XP_021331020.1	47.059	289	153	0	27	315
1558	NP_001349069.1	XP_021331020.1	52.124	259	124	0	58	316
1559	NP_001349069.1	XP_021331020.1	48.601	286	119	1	58	315
1560	NP_001349069.1	XP_021331020.1	49.635	274	137	1	58	330
1561	NP_001349069.1	XP_021331020.1	51.550	258	125	0	58	315
1562	NP_001349069.1	XP_021331020.1	52.326	258	123	0	58	315
1563	NP_001349069.1	XP_021331020.1	46.358	302	133	2	58	330
1564	NP_001349069.1	XP_021331020.1	51.172	256	125	0	60	315
1565	NP_001349069.1	XP_021331020.1	50.187	267	133	0	49	315
1566	NP_001349069.1	XP_021331020.1	51.362	257	125	0	60	316
1567	NP_001349069.1	XP_021331020.1	51.163	258	126	0	58	315
1568	NP_001349069.1	XP_021331020.1	52.326	258	122	1	58	315
1569	NP_001349069.1	XP_021331020.1	52.326	258	123	0	58	315
1570	NP_001349069.1	XP_021331020.1	48.736	277	141	1	58	333
1571	NP_001349069.1	XP_021331020.1	51.550	258	125	0	58	315
1572	NP_001349069.1	XP_021331020.1	51.550	258	125	0	58	315
1573	NP_001349069.1	XP_021331020.1	50.775	258	127	0	58	315
1574	NP_001349069.1	XP_021331020.1	50.000	258	129	0	58	315

1575	NP_001349069.1	XP_021331020.1	50.391	256	127	0	58	313
1576	NP_001349069.1	XP_021331020.1	50.181	277	137	1	58	333
1577	NP_001349069.1	XP_021331020.1	51.351	259	126	0	58	316
1578	NP_001349069.1	XP_021331020.1	51.550	258	125	0	58	315
1579	NP_001349069.1	XP_021331020.1	50.388	258	128	0	58	315
1580	NP_001349069.1	XP_021331020.1	51.172	256	125	0	60	315
1581	NP_001349069.1	XP_021331020.1	48.507	268	138	0	48	315
1582	NP_001349069.1	XP_021331020.1	50.388	258	128	0	58	315
1583	NP_001349069.1	XP_021331020.1	48.014	277	143	1	58	333
1584	NP_001349069.1	XP_021331020.1	50.000	256	128	0	60	315
1585	NP_001349069.1	XP_021331020.1	48.611	288	120	2	56	315
1586	NP_001349069.1	XP_021331020.1	50.388	258	128	0	58	315
1587	NP_001349069.1	XP_021331020.1	49.627	268	135	0	48	315
1588	NP_001349069.1	XP_021331020.1	45.645	287	156	0	29	315
1589	NP_001349069.1	XP_021331020.1	49.117	283	118	2	58	315
1590	NP_001349069.1	XP_021331020.1	51.145	262	123	2	58	315
1591	NP_001349069.1	XP_021331020.1	50.775	258	127	0	58	315
1592	NP_001349069.1	XP_021331020.1	48.763	283	144	1	49	330
1593	NP_001349069.1	XP_021331020.1	50.775	258	127	0	58	315
1594	NP_001349069.1	XP_021331020.1	52.756	254	119	1	58	311
1595	NP_001349069.1	XP_021331020.1	51.562	256	124	0	58	313
1596	NP_001349069.1	XP_021331020.1	50.000	266	133	0	50	315
1597	NP_001349069.1	XP_021331020.1	50.781	256	126	0	58	313
1598	NP_001349069.1	XP_021331020.1	50.775	258	127	0	58	315
1599	NP_001349069.1	XP_021331020.1	49.225	258	131	0	58	315
1600	NP_001349069.1	XP_021331020.1	47.872	282	146	1	50	330
1601	NP_001349069.1	XP_021331020.1	43.533	317	121	2	58	316
1602	NP_001349069.1	XP_021331020.1	49.225	258	131	0	58	315
1603	NP_001349069.1	XP_021331020.1	49.042	261	131	1	58	316
1604	NP_001349069.1	XP_021331020.1	47.203	286	123	1	58	315
1605	NP_001349069.1	XP_021331020.1	45.918	294	131	1	50	315
1606	NP_001349069.1	XP_021331020.1	43.161	329	166	3	6	313
1607	NP_001349069.1	XP_021331020.1	49.248	266	135	0	50	315
1608	NP_001349069.1	XP_021331020.1	49.807	259	128	2	58	315
1609	NP_001349069.1	XP_021331020.1	47.018	285	124	1	58	315
1610	NP_001349069.1	XP_021331020.1	45.230	283	155	0	29	311
1611	NP_001349069.1	XP_021331020.1	49.219	256	130	0	58	313
1612	NP_001349069.1	XP_021331020.1	45.361	291	158	1	29	319
1613	NP_001349069.1	XP_021331020.1	48.047	256	133	0	58	313
1614	NP_001349069.1	XP_021331020.1	44.755	286	141	1	48	316
1615	NP_001349069.1	XP_021331020.1	46.442	267	143	0	49	315
1616	NP_001349069.1	XP_021331020.1	47.368	266	140	0	50	315
1617	NP_001349069.1	XP_021331020.1	49.200	250	127	0	61	310

1618	NP_001349069.1	XP_021331020.1	43.750	304	143	2	58	333
1619	NP_001349069.1	XP_021331020.1	50.000	258	126	1	58	315
1620	NP_001349069.1	XP_021331020.1	47.287	258	136	0	58	315
1621	NP_001349069.1	XP_021331020.1	46.899	258	137	0	58	315
1622	NP_001349069.1	XP_021331020.1	43.492	315	149	2	29	315
1623	NP_001349069.1	XP_021331020.1	50.391	256	125	2	56	311
1624	NP_001349069.1	XP_021331020.1	43.151	292	157	2	33	315
1625	NP_001349069.1	XP_021331020.1	43.682	277	155	1	58	333
1626	NP_001349069.1	XP_021331020.1	50.388	258	127	1	58	315
1627	NP_001349069.1	XP_021331020.1	47.566	267	140	0	49	315
1628	NP_001349069.1	XP_021331020.1	48.438	256	132	0	58	313
1629	NP_001349069.1	XP_021331020.1	46.094	256	138	0	58	313
1630	NP_001349069.1	XP_021331020.1	44.086	279	153	1	58	333
1631	NP_001349069.1	XP_021331020.1	46.512	258	138	0	58	315
1632	NP_001349069.1	XP_021331020.1	45.312	256	140	0	60	315
1633	NP_001349069.1	XP_021331020.1	43.956	273	136	1	58	313
1634	NP_001349069.1	XP_021331020.1	44.882	254	140	0	58	311
1635	NP_001349069.1	XP_021331020.1	43.191	257	146	0	58	314
1636	NP_001349069.1	XP_021326985.1	49.618	262	132	0	58	319
1637	NP_001349069.1	XP_021326985.1	52.157	255	122	0	58	312
1638	NP_001349069.1	XP_021326985.1	50.391	256	127	0	58	313
1639	NP_001349069.1	XP_021326985.1	52.174	253	121	0	61	313
1640	NP_001349069.1	XP_021326985.1	50.885	226	111	0	88	313
1641	NP_001349069.1	XP_021330513.1	49.618	262	132	0	58	319
1642	NP_001349069.1	XP_021330513.1	52.157	255	122	0	58	312
1643	NP_001349069.1	XP_021330513.1	50.391	256	127	0	58	313
1644	NP_001349069.1	XP_021330513.1	52.174	253	121	0	61	313
1645	NP_001349069.1	XP_021330513.1	50.885	226	111	0	88	313
1646	NP_001349069.1	NP_001120944.1	53.101	258	121	0	58	315
1647	NP_001349069.1	NP_001120944.1	51.562	256	124	0	58	313
1648	NP_001349069.1	NP_001120944.1	51.504	266	126	3	50	313
1649	NP_001349069.1	NP_001120944.1	47.909	263	137	0	49	311
1650	NP_001349069.1	NP_001120944.1	51.269	197	96	0	119	315
1651	NP_001349069.1	NP_001120944.1	48.980	147	75	0	58	204
1652	NP_001349069.1	XP_017211215.2	54.264	258	118	0	58	315
1653	NP_001349069.1	XP_017211215.2	53.876	258	119	0	58	315
1654	NP_001349069.1	XP_017211215.2	53.488	258	120	0	58	315
1655	NP_001349069.1	XP_017211215.2	54.264	258	118	0	58	315
1656	NP_001349069.1	XP_017211215.2	54.264	258	118	0	58	315
1657	NP_001349069.1	XP_017211215.2	53.488	258	120	0	58	315
1658	NP_001349069.1	XP_017211215.2	48.264	288	149	0	28	315
1659	NP_001349069.1	XP_017211215.2	48.264	288	149	0	28	315
1660	NP_001349069.1	XP_017211215.2	54.264	258	118	0	58	315

1661	NP_001349069.1	XP_017211215.2	52.713	258	122	0	58	315
1662	NP_001349069.1	XP_017211215.2	52.326	258	123	0	58	315
1663	NP_001349069.1	XP_017211215.2	52.713	258	122	0	58	315
1664	NP_001349069.1	XP_017211215.2	53.077	260	120	1	58	315
1665	NP_001349069.1	XP_017211215.2	52.326	258	121	1	58	313
1666	NP_001349069.1	XP_017211215.2	49.231	260	130	1	58	315
1667	NP_001349069.1	XP_017211215.2	49.219	256	130	0	58	313
1668	NP_001349069.1	XP_017211215.2	54.622	238	108	0	82	319
1669	NP_001349069.1	XP_017211215.2	47.490	259	136	0	58	316
1670	NP_001349069.1	XP_021326475.1	46.154	299	149	2	18	315
1671	NP_001349069.1	XP_021326475.1	50.622	241	119	0	48	288
1672	NP_001349069.1	XP_021331199.1	52.399	271	129	0	45	315
1673	NP_001349069.1	XP_021331199.1	52.713	258	122	0	58	315
1674	NP_001349069.1	XP_021331199.1	54.264	258	118	0	58	315
1675	NP_001349069.1	XP_021331199.1	52.713	258	122	0	58	315
1676	NP_001349069.1	XP_021331199.1	54.264	258	118	0	58	315
1677	NP_001349069.1	XP_021331199.1	53.876	258	119	0	58	315
1678	NP_001349069.1	XP_021331199.1	50.936	267	131	0	49	315
1679	NP_001349069.1	XP_021331199.1	53.101	258	121	0	58	315
1680	NP_001349069.1	XP_021331199.1	49.147	293	142	2	45	330
1681	NP_001349069.1	XP_021331199.1	52.326	258	123	0	58	315
1682	NP_001349069.1	XP_021331199.1	52.326	258	123	0	58	315
1683	NP_001349069.1	XP_021331199.1	52.326	258	123	0	58	315
1684	NP_001349069.1	XP_021331199.1	51.938	258	124	0	58	315
1685	NP_001349069.1	XP_021331199.1	49.650	286	116	1	58	315
1686	NP_001349069.1	XP_021331199.1	51.550	258	125	0	58	315
1687	NP_001349069.1	XP_021331199.1	51.953	256	123	0	58	313
1688	NP_001349069.1	XP_021331199.1	50.579	259	127	1	58	316
1689	NP_001349069.1	XP_021331199.1	45.139	288	157	1	29	316
1690	NP_001349069.1	XP_021331199.1	49.618	262	130	2	50	311
1691	NP_001349069.1	XP_021331199.1	51.709	234	113	0	82	315
1692	NP_001349069.1	XP_021331199.1	48.828	256	130	1	58	313
1693	NP_001349069.1	XP_021331199.1	45.415	229	124	1	29	257
1694	NP_001349069.1	XP_021331199.1	53.012	166	77	1	166	330
1695	NP_001349069.1	XP_021331200.1	51.079	278	136	0	38	315
1696	NP_001349069.1	XP_021331200.1	52.434	267	127	0	49	315
1697	NP_001349069.1	XP_021331200.1	52.713	258	122	0	58	315
1698	NP_001349069.1	XP_021331200.1	50.181	277	132	1	45	315
1699	NP_001349069.1	XP_021331200.1	52.326	258	123	0	58	315
1700	NP_001349069.1	XP_021331200.1	50.775	258	127	0	58	315
1701	NP_001349069.1	XP_021331200.1	50.769	260	126	1	58	315
1702	NP_001349069.1	XP_021331200.1	52.124	259	124	0	58	316
1703	NP_001349069.1	XP_021331200.1	49.270	274	138	1	58	330

1704	NP_001349069.1	XP_021331200.1	50.000	268	134	0	48	315
1705	NP_001349069.1	XP_021331200.1	49.064	267	136	0	49	315
1706	NP_001349069.1	XP_021331200.1	47.101	276	145	1	40	315
1707	NP_001349069.1	XP_021331200.1	49.306	288	116	2	58	315
1708	NP_001349069.1	XP_021331200.1	52.308	260	122	1	58	315
1709	NP_001349069.1	XP_021331200.1	46.853	286	124	1	58	315
1710	NP_001349069.1	XP_021331200.1	49.609	256	129	0	60	315
1711	NP_001349069.1	XP_021331200.1	50.388	258	128	0	58	315
1712	NP_001349069.1	XP_021331200.1	49.612	258	130	0	58	315
1713	NP_001349069.1	XP_021331200.1	50.215	233	116	0	58	290
1714	NP_001349069.1	XP_021331200.1	43.836	292	159	1	24	315
1715	NP_001349069.1	XP_021331200.1	41.627	209	114	2	108	316
1716	NP_001349069.1	XP_017211133.2	51.321	265	129	0	49	313
1717	NP_001349069.1	XP_017211133.2	48.134	268	139	0	48	315
1718	NP_001349069.1	XP_017211133.2	51.172	256	125	0	60	315
1719	NP_001349069.1	XP_017211133.2	49.213	254	129	0	58	311
1720	NP_001349069.1	XP_017211133.2	49.438	267	135	0	49	315
1721	NP_001349069.1	XP_017211133.2	49.231	260	132	0	56	315
1722	NP_001349069.1	XP_017211133.2	50.192	261	130	0	56	316
1723	NP_001349069.1	XP_017211133.2	49.027	257	131	0	60	316
1724	NP_001349069.1	XP_017211133.2	48.872	266	136	0	50	315
1725	NP_001349069.1	XP_017211133.2	48.881	268	137	0	48	315
1726	NP_001349069.1	XP_017211133.2	48.846	260	133	0	56	315
1727	NP_001349069.1	XP_017211133.2	47.842	278	144	1	39	315
1728	NP_001349069.1	XP_017211133.2	44.565	276	153	0	58	333
1729	NP_001349069.1	XP_017211133.2	44.304	237	131	1	49	285
1730	NP_001349069.1	XP_017211133.2	50.000	142	71	0	175	316
1731	NP_001349069.1	XP_017211133.2	41.304	46	26	1	287	331
1732	NP_001349069.1	XP_021331033.1	53.876	258	119	0	58	315
1733	NP_001349069.1	XP_021331033.1	53.640	261	119	1	58	316
1734	NP_001349069.1	XP_021331033.1	53.101	258	121	0	58	315
1735	NP_001349069.1	XP_021331033.1	50.725	276	133	2	58	330
1736	NP_001349069.1	XP_021331033.1	51.351	259	126	0	58	316
1737	NP_001349069.1	XP_021331033.1	50.775	258	127	0	58	315
1738	NP_001349069.1	XP_021331033.1	50.385	260	127	1	58	315
1739	NP_001349069.1	XP_021331033.1	47.426	272	141	1	46	315
1740	NP_001349069.1	XP_021331033.1	52.321	237	111	1	81	315
1741	NP_001349069.1	XP_021331033.1	49.802	253	121	1	44	290
1742	NP_001349069.1	XP_021331067.1	52.549	255	121	0	58	312
1743	NP_001349069.1	XP_021331067.1	50.391	256	127	0	58	313
1744	NP_001349069.1	XP_021331067.1	46.622	296	156	2	19	313
1745	NP_001349069.1	XP_021331067.1	46.970	198	105	0	119	316
1746	NP_001349069.1	XP_021331163.1	51.938	258	124	0	58	315

1747	NP_001349069.1	XP_021331163.1	49.813	267	134	0	49	315
1748	NP_001349069.1	XP_021331163.1	53.101	258	121	0	58	315
1749	NP_001349069.1	XP_021331163.1	48.410	283	145	1	49	330
1750	NP_001349069.1	XP_021331163.1	52.713	258	122	0	58	315
1751	NP_001349069.1	XP_021331163.1	49.474	285	142	1	33	315
1752	NP_001349069.1	XP_021331163.1	49.270	274	138	1	58	330
1753	NP_001349069.1	XP_021331163.1	49.097	277	140	1	58	333
1754	NP_001349069.1	XP_021331163.1	53.101	258	121	0	58	315
1755	NP_001349069.1	XP_021331163.1	51.095	274	133	1	58	330
1756	NP_001349069.1	XP_021331163.1	47.297	296	149	2	45	333
1757	NP_001349069.1	XP_021331163.1	49.270	274	138	1	58	330
1758	NP_001349069.1	XP_021331163.1	51.938	258	124	0	58	315
1759	NP_001349069.1	XP_021331163.1	50.000	266	133	0	50	315
1760	NP_001349069.1	XP_021331163.1	51.351	259	126	0	58	316
1761	NP_001349069.1	XP_021331163.1	50.775	258	127	0	58	315
1762	NP_001349069.1	XP_021331163.1	49.813	267	134	0	49	315
1763	NP_001349069.1	XP_021331163.1	48.315	267	138	0	49	315
1764	NP_001349069.1	XP_021331163.1	45.819	299	155	2	42	333
1765	NP_001349069.1	XP_021331163.1	49.438	267	135	0	49	315
1766	NP_001349069.1	XP_021331163.1	49.434	265	134	0	49	313
1767	NP_001349069.1	XP_021331163.1	49.813	267	134	0	49	315
1768	NP_001349069.1	XP_021331163.1	51.515	231	112	0	85	315
1769	NP_001349069.1	XP_021331163.1	45.936	283	126	1	58	313
1770	NP_001349069.1	XP_021331163.1	46.332	259	112	1	58	289
1771	NP_001349069.1	XP_021331163.1	51.961	204	98	0	112	315
1772	NP_001349069.1	XP_021331163.1	48.148	81	41	1	251	330
1773	NP_001349069.1	XP_021331163.1	46.032	63	33	1	60	122
1774	NP_001349069.1	XP_017211168.1	50.373	268	131	2	50	315
1775	NP_001349069.1	XP_017211168.1	51.293	232	112	1	58	288
1776	NP_001349069.1	XP_017211168.1	44.245	278	146	4	70	342
1777	NP_001349069.1	XP_017211168.1	52.514	179	84	1	58	235
1778	NP_001349069.1	XP_021331159.1	49.813	267	134	0	50	316
1779	NP_001349069.1	XP_021331159.1	48.438	256	132	0	58	313
1780	NP_001349069.1	XP_021331159.1	42.475	299	169	2	18	316
1781	NP_001349069.1	XP_021331159.1	44.792	192	106	0	38	229
1782	NP_001349069.1	XP_017211166.1	51.953	256	123	0	58	313
1783	NP_001349069.1	XP_017211166.1	49.811	265	132	1	50	313
1784	NP_001349069.1	XP_017211166.1	46.473	241	129	0	46	286
1785	NP_001349069.1	XP_017211166.1	47.872	188	97	1	144	330
1786	NP_001349069.1	XP_021329615.1	50.000	268	134	0	48	315
1787	NP_001349069.1	XP_021329615.1	46.996	283	150	0	28	310
1788	NP_001349069.1	XP_021329615.1	48.828	256	131	0	60	315
1789	NP_001349069.1	XP_021329615.1	49.225	258	131	0	58	315

1790	NP_001349069.1	XP_021329615.1	47.287	258	136	0	59	316
1791	NP_001349069.1	XP_021329615.1	47.234	235	124	0	81	315
1792	NP_001349069.1	XP_021329615.1	42.500	40	23	0	276	315
1793	NP_001349069.1	XP_021331282.1	54.297	256	117	0	58	313
1794	NP_001349069.1	XP_021331282.1	55.078	256	115	0	58	313
1795	NP_001349069.1	XP_021331282.1	51.880	266	128	0	48	313
1796	NP_001349069.1	XP_021331282.1	51.562	256	124	0	58	313
1797	NP_001349069.1	XP_021331282.1	50.769	260	128	0	58	317
1798	NP_001349069.1	XP_021331282.1	48.039	306	145	3	9	313
1799	NP_001349069.1	XP_021331282.1	51.172	256	125	0	58	313
1800	NP_001349069.1	XP_021331282.1	43.218	317	151	2	46	333
1801	NP_001349069.1	XP_021331282.1	49.621	264	133	0	50	313
1802	NP_001349069.1	XP_021331282.1	49.500	200	101	0	116	315
1803	NP_001349069.1	NP_001116087.1	46.284	296	154	2	19	313
1804	NP_001349069.1	NP_001116087.1	50.758	264	130	0	50	313
1805	NP_001349069.1	NP_001116087.1	51.383	253	123	0	58	310
1806	NP_001349069.1	NP_001116087.1	44.574	258	116	1	58	288
1807	NP_001349069.1	XP_017210844.2	51.953	256	123	0	58	313
1808	NP_001349069.1	XP_017210844.2	50.373	268	133	0	48	315
1809	NP_001349069.1	XP_017210844.2	50.545	275	134	2	58	330
1810	NP_001349069.1	XP_017210844.2	53.629	248	115	0	68	315
1811	NP_001349069.1	XP_017210844.2	50.775	258	127	0	58	315
1812	NP_001349069.1	XP_017210844.2	51.575	254	122	1	60	312
1813	NP_001349069.1	XP_017210844.2	52.036	221	106	0	95	315
1814	NP_001349069.1	XP_017210844.2	52.261	199	94	1	59	256
1815	NP_001349069.1	XP_017210844.2	54.651	172	77	1	58	228
1816	NP_001349069.1	XP_017210844.2	47.333	150	78	1	60	208
1817	NP_001349069.1	XP_017210844.2	55.224	67	30	0	58	124
1818	NP_001349069.1	XP_017210844.2	43.056	72	40	1	263	333
1819	NP_001349069.1	XP_021330829.1	52.174	253	121	0	63	315
1820	NP_001349069.1	XP_021330829.1	46.484	256	133	2	91	342
1821	NP_001349069.1	XP_021330829.1	49.438	178	90	0	58	235
1822	NP_001349069.1	XP_021330829.1	46.739	184	98	0	133	316
1823	NP_001349069.1	XP_021331198.1	51.636	275	132	1	60	333
1824	NP_001349069.1	XP_021331198.1	54.264	258	118	0	58	315
1825	NP_001349069.1	XP_021331198.1	53.101	258	121	0	58	315
1826	NP_001349069.1	XP_021331198.1	49.819	277	138	1	58	333
1827	NP_001349069.1	XP_021331198.1	52.326	258	123	0	58	315
1828	NP_001349069.1	XP_021331198.1	52.713	258	122	0	58	315
1829	NP_001349069.1	XP_021331198.1	52.896	259	122	0	58	316
1830	NP_001349069.1	XP_021331198.1	52.326	258	123	0	58	315
1831	NP_001349069.1	XP_021331198.1	50.936	267	131	0	49	315
1832	NP_001349069.1	XP_021331198.1	52.326	258	123	0	58	315

1833	NP_001349069.1	XP_021331198.1	52.713	258	122	0	58	315
1834	NP_001349069.1	XP_021331198.1	53.488	258	120	0	58	315
1835	NP_001349069.1	XP_021331198.1	53.101	258	121	0	58	315
1836	NP_001349069.1	XP_021331198.1	53.101	258	121	0	58	315
1837	NP_001349069.1	XP_021331198.1	53.333	255	119	0	58	312
1838	NP_001349069.1	XP_021331198.1	51.938	258	124	0	58	315
1839	NP_001349069.1	XP_021331198.1	52.326	258	123	0	58	315
1840	NP_001349069.1	XP_021331198.1	51.079	278	135	1	58	334
1841	NP_001349069.1	XP_021331198.1	52.778	252	119	0	58	309
1842	NP_001349069.1	XP_021331198.1	50.000	274	136	1	58	330
1843	NP_001349069.1	XP_021331198.1	51.163	258	126	0	58	315
1844	NP_001349069.1	XP_021331198.1	48.944	284	117	2	58	313
1845	NP_001349069.1	XP_021331198.1	50.579	259	128	0	57	315
1846	NP_001349069.1	XP_021331198.1	46.853	286	124	1	58	315
1847	NP_001349069.1	XP_021331198.1	47.902	286	121	1	58	315
1848	NP_001349069.1	XP_021331198.1	48.201	278	138	1	44	315
1849	NP_001349069.1	XP_021331198.1	49.798	247	123	1	88	333
1850	NP_001349069.1	XP_017210643.2	51.953	256	123	0	58	313
1851	NP_001349069.1	XP_017210643.2	51.172	256	125	0	58	313
1852	NP_001349069.1	XP_017210643.2	45.238	294	159	2	21	313
1853	NP_001349069.1	XP_017210643.2	46.914	243	129	0	58	300
1854	NP_001349069.1	XP_017211121.2	47.883	307	153	4	40	341
1855	NP_001349069.1	XP_021330462.1	51.765	255	123	0	60	314
1856	NP_001349069.1	XP_021330462.1	49.270	274	139	0	42	315
1857	NP_001349069.1	XP_021330462.1	52.344	256	122	0	60	315
1858	NP_001349069.1	XP_021330462.1	48.659	261	134	0	58	318
1859	NP_001349069.1	XP_021330462.1	45.965	285	126	1	60	316
1860	NP_001349069.1	XP_021330462.1	48.413	252	130	0	60	311
1861	NP_001349069.1	XP_021330462.1	40.909	44	26	0	46	89
1862	NP_001349069.1	XP_021330461.1	51.765	255	123	0	60	314
1863	NP_001349069.1	XP_021330461.1	49.270	274	139	0	42	315
1864	NP_001349069.1	XP_021330461.1	52.344	256	122	0	60	315
1865	NP_001349069.1	XP_021330461.1	48.659	261	134	0	58	318
1866	NP_001349069.1	XP_021330461.1	45.965	285	126	1	60	316
1867	NP_001349069.1	XP_021330461.1	48.413	252	130	0	60	311
1868	NP_001349069.1	XP_021330461.1	40.909	44	26	0	46	89
1869	NP_001349069.1	XP_021330460.1	51.765	255	123	0	60	314
1870	NP_001349069.1	XP_021330460.1	49.270	274	139	0	42	315
1871	NP_001349069.1	XP_021330460.1	52.344	256	122	0	60	315
1872	NP_001349069.1	XP_021330460.1	48.659	261	134	0	58	318
1873	NP_001349069.1	XP_021330460.1	45.965	285	126	1	60	316
1874	NP_001349069.1	XP_021330460.1	48.413	252	130	0	60	311
1875	NP_001349069.1	XP_021330460.1	40.909	44	26	0	46	89

1876	NP_001349069.1	XP_021331104.1	48.026	304	155	2	33	333
1877	NP_001349069.1	XP_021331104.1	53.282	259	121	0	58	316
1878	NP_001349069.1	XP_021331104.1	52.290	262	125	0	58	319
1879	NP_001349069.1	XP_021331104.1	50.526	285	137	2	49	329
1880	NP_001349069.1	XP_021331104.1	48.299	294	152	0	22	315
1881	NP_001349069.1	XP_021331104.1	52.326	258	123	0	58	315
1882	NP_001349069.1	XP_021331104.1	51.938	258	124	0	58	315
1883	NP_001349069.1	XP_021331104.1	52.510	259	123	0	58	316
1884	NP_001349069.1	XP_021331104.1	50.763	262	129	0	58	319
1885	NP_001349069.1	XP_021331104.1	54.264	258	118	0	58	315
1886	NP_001349069.1	XP_021331104.1	51.351	259	126	0	58	316
1887	NP_001349069.1	XP_021331104.1	52.713	258	122	0	58	315
1888	NP_001349069.1	XP_021331104.1	52.434	267	126	1	50	315
1889	NP_001349069.1	XP_021331104.1	47.855	303	128	3	58	330
1890	NP_001349069.1	XP_021331104.1	51.724	261	123	1	58	315
1891	NP_001349069.1	XP_021331104.1	51.128	266	130	0	50	315
1892	NP_001349069.1	XP_021331104.1	50.545	275	134	2	58	330
1893	NP_001349069.1	XP_021331104.1	49.097	277	140	1	58	333
1894	NP_001349069.1	XP_021331104.1	48.252	286	120	1	58	315
1895	NP_001349069.1	XP_021331104.1	47.260	292	123	2	58	318
1896	NP_001349069.1	XP_021331104.1	49.225	258	131	0	58	315
1897	NP_001349069.1	XP_021331104.1	44.444	306	159	3	21	315
1898	NP_001349069.1	XP_021331104.1	49.612	258	130	0	58	315
1899	NP_001349069.1	XP_021331446.1	52.713	258	122	0	58	315
1900	NP_001349069.1	XP_021331446.1	53.101	258	121	0	58	315
1901	NP_001349069.1	XP_021331446.1	52.734	256	121	0	58	313
1902	NP_001349069.1	XP_021331446.1	52.713	258	122	0	58	315
1903	NP_001349069.1	XP_021331446.1	52.713	258	122	0	58	315
1904	NP_001349069.1	XP_021331446.1	50.775	258	127	0	58	315
1905	NP_001349069.1	XP_021331446.1	50.775	258	127	0	58	315
1906	NP_001349069.1	XP_021331446.1	51.938	258	124	0	58	315
1907	NP_001349069.1	XP_021331446.1	45.806	310	154	2	20	315
1908	NP_001349069.1	XP_021331446.1	48.070	285	146	1	33	315
1909	NP_001349069.1	XP_021331446.1	53.648	233	108	0	58	290
1910	NP_001349069.1	XP_021331029.1	52.157	255	122	0	58	312
1911	NP_001349069.1	XP_021331029.1	51.172	256	125	0	58	313
1912	NP_001349069.1	XP_021331029.1	46.622	296	156	2	19	313
1913	NP_001349069.1	XP_021331029.1	46.970	198	105	0	119	316
1914	NP_001349069.1	XP_021330458.1	51.172	256	125	0	58	313
1915	NP_001349069.1	XP_021330458.1	52.191	251	120	0	63	313
1916	NP_001349069.1	XP_021330458.1	47.636	275	138	1	45	313
1917	NP_001349069.1	XP_021330458.1	49.219	256	130	0	58	313
1918	NP_001349069.1	XP_021330458.1	52.663	169	80	0	147	315

1919	NP_001349069.1	XP_021330458.1	45.550	191	98	1	45	229
1920	NP_001349069.1	XP_009299138.2	52.549	255	121	0	58	312
1921	NP_001349069.1	XP_009299138.2	50.980	255	125	0	59	313
1922	NP_001349069.1	XP_009299138.2	50.584	257	127	0	59	315
1923	NP_001349069.1	XP_009299138.2	49.756	205	103	0	109	313
1924	NP_001349069.1	XP_021331115.1	52.060	267	128	0	49	315
1925	NP_001349069.1	XP_021331115.1	51.550	258	125	0	58	315
1926	NP_001349069.1	XP_021331115.1	51.550	258	125	0	58	315
1927	NP_001349069.1	XP_021331115.1	51.550	258	125	0	58	315
1928	NP_001349069.1	XP_021331115.1	51.163	258	126	0	58	315
1929	NP_001349069.1	XP_021331115.1	50.388	258	128	0	58	315
1930	NP_001349069.1	XP_021331115.1	47.388	268	141	0	48	315
1931	NP_001349069.1	XP_021331115.1	47.015	268	142	0	48	315
1932	NP_001349069.1	XP_021331115.1	47.794	272	141	1	60	330
1933	NP_001349069.1	XP_021331115.1	49.600	250	126	0	58	307
1934	NP_001349069.1	XP_021331115.1	47.674	258	135	0	58	315
1935	NP_001349069.1	XP_021331115.1	49.225	258	131	0	58	315
1936	NP_001349069.1	XP_021331115.1	47.809	251	131	0	63	313
1937	NP_001349069.1	XP_021331115.1	42.328	189	108	1	146	333
1938	NP_001349069.1	XP_021331115.1	42.857	147	84	0	166	312
1939	NP_001349069.1	XP_021331401.1	50.725	276	135	1	40	315
1940	NP_001349069.1	XP_021331401.1	55.426	258	115	0	58	315
1941	NP_001349069.1	XP_021331401.1	54.264	258	118	0	58	315
1942	NP_001349069.1	XP_021331401.1	52.713	258	122	0	58	315
1943	NP_001349069.1	XP_021331401.1	53.101	258	121	0	58	315
1944	NP_001349069.1	XP_021331401.1	51.825	274	131	1	58	330
1945	NP_001349069.1	XP_021331401.1	49.147	293	146	2	49	339
1946	NP_001349069.1	XP_021331401.1	52.896	259	122	0	58	316
1947	NP_001349069.1	XP_021331401.1	48.921	278	141	1	38	315
1948	NP_001349069.1	XP_021331401.1	47.987	298	127	1	46	315
1949	NP_001349069.1	XP_021331401.1	51.938	258	124	0	58	315
1950	NP_001349069.1	XP_021331401.1	51.321	265	129	0	49	313
1951	NP_001349069.1	XP_021331401.1	47.987	298	150	2	19	315
1952	NP_001349069.1	XP_021331401.1	50.000	276	137	1	40	315
1953	NP_001349069.1	XP_021331401.1	49.814	269	135	0	47	315
1954	NP_001349069.1	XP_021331401.1	50.752	266	131	0	50	315
1955	NP_001349069.1	XP_021331401.1	48.881	268	137	0	49	316
1956	NP_001349069.1	XP_021331401.1	49.621	264	133	0	50	313
1957	NP_001349069.1	XP_021331401.1	51.550	258	125	0	58	315
1958	NP_001349069.1	XP_021331401.1	50.763	262	128	1	58	319
1959	NP_001349069.1	XP_021331401.1	47.368	285	123	1	58	315
1960	NP_001349069.1	XP_021331401.1	46.102	295	131	1	49	315
1961	NP_001349069.1	XP_021331401.1	50.775	258	127	0	58	315

1962	NP_001349069.1	XP_021331401.1	50.000	256	128	0	61	316
1963	NP_001349069.1	XP_021331401.1	45.098	306	140	1	38	315
1964	NP_001349069.1	XP_021331401.1	44.586	314	147	1	29	315
1965	NP_001349069.1	XP_021331401.1	46.853	286	124	1	58	315
1966	NP_001349069.1	XP_021331401.1	50.000	262	129	2	50	311
1967	NP_001349069.1	XP_021331401.1	45.690	232	98	1	58	261
1968	NP_001349069.1	XP_021331401.1	50.289	173	86	0	147	319
1969	NP_001349069.1	XP_021331401.1	48.993	149	76	0	58	206
1970	NP_001349069.1	XP_017211055.1	50.996	251	123	0	63	313
1971	NP_001349069.1	XP_017211055.1	44.765	277	152	1	58	333
1972	NP_001349069.1	XP_017211055.1	43.478	276	150	1	45	314
1973	NP_001349069.1	XP_017211055.1	45.669	254	138	0	58	311
1974	NP_001349069.1	XP_017211055.1	46.429	168	90	0	146	313
1975	NP_001349069.1	XP_017211055.1	49.296	142	72	0	172	313
1976	NP_001349069.1	XP_021330858.1	50.360	278	132	1	44	315
1977	NP_001349069.1	XP_021330858.1	51.737	259	125	0	58	316
1978	NP_001349069.1	XP_021330858.1	51.145	262	128	0	58	319
1979	NP_001349069.1	XP_021330858.1	51.562	256	124	0	58	313
1980	NP_001349069.1	XP_021330858.1	49.813	267	134	0	49	315
1981	NP_001349069.1	XP_021330858.1	52.174	253	121	0	60	312
1982	NP_001349069.1	XP_021330858.1	49.458	277	139	1	58	333
1983	NP_001349069.1	XP_021330858.1	48.450	258	133	0	58	315
1984	NP_001349069.1	XP_021330858.1	50.988	253	124	0	63	315
1985	NP_001349069.1	XP_021330858.1	49.612	258	130	0	58	315
1986	NP_001349069.1	XP_021330858.1	50.403	248	123	0	58	305
1987	NP_001349069.1	XP_021330858.1	48.689	267	136	1	50	315
1988	NP_001349069.1	XP_021330858.1	48.473	262	135	0	58	319
1989	NP_001349069.1	XP_021330858.1	42.215	289	137	2	58	316
1990	NP_001349069.1	XP_021330858.1	38.535	314	162	4	49	331
1991	NP_001349069.1	XP_021330858.1	45.455	198	108	0	119	316
1992	NP_001349069.1	XP_021330858.1	47.586	145	76	0	175	319
1993	NP_001349069.1	XP_021330858.1	35.849	106	40	1	58	135
1994	NP_001349069.1	XP_021329622.1	53.488	258	120	0	58	315
1995	NP_001349069.1	XP_021329622.1	51.550	258	125	0	58	315
1996	NP_001349069.1	XP_021329622.1	52.713	258	122	0	58	315
1997	NP_001349069.1	XP_021329622.1	52.734	256	121	0	58	313
1998	NP_001349069.1	XP_021329622.1	48.708	271	139	0	49	319
1999	NP_001349069.1	XP_021329622.1	49.612	258	130	0	58	315
2000	NP_001349069.1	XP_021329622.1	50.752	266	131	0	48	313
2001	NP_001349069.1	XP_021329622.1	52.734	256	121	0	60	315
2002	NP_001349069.1	XP_021329622.1	50.391	256	127	0	58	313
2003	NP_001349069.1	XP_021329622.1	49.225	258	131	0	58	315
2004	NP_001349069.1	XP_021329622.1	51.550	258	125	0	58	315

2005	NP_001349069.1	XP_021329622.1	50.388	258	128	0	58	315
2006	NP_001349069.1	XP_021329622.1	50.775	258	127	0	58	315
2007	NP_001349069.1	XP_021329622.1	50.781	256	126	0	60	315
2008	NP_001349069.1	XP_021329622.1	50.965	259	127	0	58	316
2009	NP_001349069.1	XP_021329622.1	51.550	258	125	0	58	315
2010	NP_001349069.1	XP_021329622.1	49.416	257	130	0	60	316
2011	NP_001349069.1	XP_021329622.1	49.225	258	131	0	58	315
2012	NP_001349069.1	XP_021329622.1	49.612	258	130	0	58	315
2013	NP_001349069.1	XP_021329622.1	48.837	258	132	0	58	315
2014	NP_001349069.1	XP_021329622.1	50.000	256	128	0	60	315
2015	NP_001349069.1	XP_021329622.1	51.724	232	112	0	60	291
2016	NP_001349069.1	XP_021329622.1	48.529	204	105	0	58	261
2017	NP_001349069.1	XP_021329622.1	46.203	158	85	0	49	206
2018	NP_001349069.1	XP_021329622.1	46.721	122	65	0	58	179
2019	NP_001349069.1	NP_001314932.1	50.787	254	125	0	60	313
2020	NP_001349069.1	NP_001314932.1	49.057	265	134	1	50	313
2021	NP_001349069.1	NP_001314932.1	51.012	247	117	2	69	315
2022	NP_001349069.1	NP_001314932.1	50.877	228	112	0	58	285
2023	NP_001349069.1	XP_021329720.1	51.953	256	123	0	58	313
2024	NP_001349069.1	XP_021329720.1	50.391	256	127	0	58	313
2025	NP_001349069.1	XP_021329720.1	51.172	256	125	0	58	313
2026	NP_001349069.1	XP_021329720.1	49.805	257	129	0	58	314
2027	NP_001349069.1	XP_021329720.1	50.000	256	128	0	58	313
2028	NP_001349069.1	XP_021329720.1	48.819	254	130	0	58	311
2029	NP_001349069.1	XP_021329720.1	47.368	266	140	0	48	313
2030	NP_001349069.1	XP_021329720.1	48.302	265	137	0	49	313
2031	NP_001349069.1	XP_021329720.1	48.606	251	129	0	63	313
2032	NP_001349069.1	XP_021329720.1	43.494	269	148	1	38	306
2033	NP_001349069.1	XP_021329720.1	48.241	199	103	0	115	313
2034	NP_001349069.1	XP_021329720.1	45.324	139	76	0	58	196
2035	NP_001349069.1	XP_021329720.1	47.656	128	66	1	204	330
2036	NP_001349069.1	XP_021331332.1	49.819	277	138	1	56	331
2037	NP_001349069.1	XP_021331332.1	48.029	279	139	1	44	316
2038	NP_001349069.1	XP_021331332.1	51.163	258	126	0	58	315
2039	NP_001349069.1	XP_021331332.1	53.101	258	121	0	58	315
2040	NP_001349069.1	XP_021331332.1	51.562	256	124	0	58	313
2041	NP_001349069.1	XP_021331332.1	51.163	258	126	0	58	315
2042	NP_001349069.1	XP_021331332.1	50.181	277	137	1	58	333
2043	NP_001349069.1	XP_021331332.1	50.000	258	129	0	58	315
2044	NP_001349069.1	XP_021331332.1	50.000	258	129	0	58	315
2045	NP_001349069.1	XP_021331332.1	44.586	314	167	1	6	319
2046	NP_001349069.1	XP_021331332.1	51.938	258	124	0	58	315
2047	NP_001349069.1	XP_021331332.1	51.562	256	124	0	60	315

2048	NP_001349069.1	XP_021331332.1	50.562	267	132	0	49	315
2049	NP_001349069.1	XP_021331332.1	50.000	258	129	0	58	315
2050	NP_001349069.1	XP_021331332.1	50.388	258	128	0	58	315
2051	NP_001349069.1	XP_021331332.1	51.145	262	128	0	58	319
2052	NP_001349069.1	XP_021331332.1	50.775	258	127	0	58	315
2053	NP_001349069.1	XP_021331332.1	51.938	258	124	0	58	315
2054	NP_001349069.1	XP_021331332.1	50.000	258	129	0	58	315
2055	NP_001349069.1	XP_021331332.1	46.358	302	133	2	58	330
2056	NP_001349069.1	XP_021331332.1	48.364	275	141	1	60	333
2057	NP_001349069.1	XP_021331332.1	47.518	282	147	1	50	330
2058	NP_001349069.1	XP_021331332.1	48.432	287	147	1	29	315
2059	NP_001349069.1	XP_021331332.1	49.225	258	131	0	58	315
2060	NP_001349069.1	XP_021331332.1	47.101	276	140	1	44	313
2061	NP_001349069.1	XP_021331332.1	50.000	258	129	0	58	315
2062	NP_001349069.1	XP_021331332.1	48.315	267	138	0	49	315
2063	NP_001349069.1	XP_021331332.1	51.181	254	123	1	58	311
2064	NP_001349069.1	XP_021331332.1	45.522	268	146	0	48	315
2065	NP_001349069.1	XP_021331332.1	45.312	256	140	0	60	315
2066	NP_001349069.1	XP_021331332.1	47.436	234	123	0	82	315
2067	NP_001349069.1	XP_021331332.1	48.529	204	104	1	58	261
2068	NP_001349069.1	XP_021331332.1	47.134	157	83	0	50	206
2069	NP_001349069.1	XP_021331509.1	49.811	265	132	1	50	313
2070	NP_001349069.1	XP_021331509.1	48.617	253	130	0	58	310
2071	NP_001349069.1	XP_021331509.1	50.000	200	100	0	58	257
2072	NP_001349069.1	XP_017211183.1	49.811	265	132	1	50	313
2073	NP_001349069.1	XP_017211183.1	49.174	242	123	0	49	290
2074	NP_001349069.1	XP_017211183.1	52.482	141	67	0	175	315
2075	NP_001349069.1	XP_021331157.1	45.714	315	142	2	29	315
2076	NP_001349069.1	XP_021331157.1	49.301	286	116	2	58	315
2077	NP_001349069.1	XP_021331157.1	50.000	266	133	0	50	315
2078	NP_001349069.1	XP_021331157.1	51.351	259	124	2	58	316
2079	NP_001349069.1	XP_021331157.1	51.681	238	114	1	82	319
2080	NP_001349069.1	XP_021331157.1	47.107	242	128	0	49	290
2081	NP_001349069.1	XP_009300324.1	51.953	256	123	0	58	313
2082	NP_001349069.1	XP_009300324.1	50.391	256	127	0	58	313
2083	NP_001349069.1	XP_009300324.1	51.172	256	125	0	58	313
2084	NP_001349069.1	XP_009300324.1	49.805	257	129	0	58	314
2085	NP_001349069.1	XP_009300324.1	50.000	256	128	0	58	313
2086	NP_001349069.1	XP_009300324.1	48.819	254	130	0	58	311
2087	NP_001349069.1	XP_009300324.1	47.368	266	140	0	48	313
2088	NP_001349069.1	XP_009300324.1	48.302	265	137	0	49	313
2089	NP_001349069.1	XP_009300324.1	48.606	251	129	0	63	313
2090	NP_001349069.1	XP_009300324.1	43.494	269	148	1	38	306

2091	NP_001349069.1	XP_009300324.1	48.241	199	103	0	115	313
2092	NP_001349069.1	XP_009300324.1	45.324	139	76	0	58	196
2093	NP_001349069.1	XP_009300324.1	47.656	128	66	1	204	330
2094	NP_001349069.1	NP_001315634.1	51.383	253	123	0	63	315
2095	NP_001349069.1	NP_001315634.1	51.953	256	123	0	58	313
2096	NP_001349069.1	NP_001315634.1	48.908	229	117	0	58	286
2097	NP_001349069.1	NP_001315634.1	43.678	174	96	1	33	204
2098	NP_001349069.1	NP_001314792.1	48.364	275	141	1	42	315
2099	NP_001349069.1	NP_001314792.1	53.879	232	107	0	58	289
2100	NP_001349069.1	NP_001314792.1	48.035	229	119	0	91	319
2101	NP_001349069.1	XP_021331405.1	52.434	267	127	0	49	315
2102	NP_001349069.1	XP_021331405.1	53.488	258	120	0	58	315
2103	NP_001349069.1	XP_021331405.1	51.163	258	126	0	58	315
2104	NP_001349069.1	XP_021331405.1	51.550	258	125	0	58	315
2105	NP_001349069.1	XP_021331405.1	52.434	267	127	0	49	315
2106	NP_001349069.1	XP_021331405.1	51.550	258	125	0	58	315
2107	NP_001349069.1	XP_021331405.1	51.685	267	129	0	49	315
2108	NP_001349069.1	XP_021331405.1	50.775	258	126	1	58	315
2109	NP_001349069.1	XP_021331405.1	51.908	262	126	0	58	319
2110	NP_001349069.1	XP_021331405.1	51.550	258	125	0	58	315
2111	NP_001349069.1	XP_021331405.1	50.562	267	132	0	49	315
2112	NP_001349069.1	XP_021331405.1	48.014	277	143	1	58	333
2113	NP_001349069.1	XP_021331405.1	51.163	258	126	0	58	315
2114	NP_001349069.1	XP_021331405.1	49.813	267	133	1	50	316
2115	NP_001349069.1	XP_021331405.1	51.163	258	126	0	58	315
2116	NP_001349069.1	XP_021331405.1	50.000	268	134	0	48	315
2117	NP_001349069.1	XP_021331405.1	52.564	234	111	0	82	315
2118	NP_001349069.1	XP_021331405.1	51.181	254	122	2	58	311
2119	NP_001349069.1	XP_021331405.1	48.828	256	130	1	58	313
2120	NP_001349069.1	XP_021331405.1	45.217	230	125	1	28	257
2121	NP_001349069.1	XP_021331047.1	52.852	263	120	1	58	316
2122	NP_001349069.1	XP_021331047.1	51.362	257	121	1	58	310
2123	NP_001349069.1	XP_021331047.1	48.921	278	137	2	58	330
2124	NP_001349069.1	XP_021331047.1	50.000	258	129	0	58	315
2125	NP_001349069.1	XP_021331047.1	44.194	310	121	2	58	315
2126	NP_001349069.1	XP_021331047.1	50.382	262	126	1	58	319
2127	NP_001349069.1	XP_021331047.1	48.718	234	120	0	82	315
2128	NP_001349069.1	XP_021331047.1	50.216	231	111	2	112	338
2129	NP_001349069.1	XP_021331047.1	46.988	166	87	1	166	330
2130	NP_001349069.1	XP_021331108.1	50.000	276	137	1	40	315
2131	NP_001349069.1	XP_021331108.1	53.668	259	119	1	58	315
2132	NP_001349069.1	XP_021331108.1	51.460	274	132	1	58	330
2133	NP_001349069.1	XP_021331108.1	53.101	258	121	0	58	315

2134	NP_001349069.1	XP_021331108.1	51.254	279	135	1	56	333
2135	NP_001349069.1	XP_021331108.1	54.688	256	116	0	58	313
2136	NP_001349069.1	XP_021331108.1	53.101	258	121	0	58	315
2137	NP_001349069.1	XP_021331108.1	51.111	270	132	0	46	315
2138	NP_001349069.1	XP_021331108.1	53.282	259	121	0	58	316
2139	NP_001349069.1	XP_021331108.1	52.896	259	122	0	58	316
2140	NP_001349069.1	XP_021331108.1	52.326	258	123	0	58	315
2141	NP_001349069.1	XP_021331108.1	52.326	258	123	0	58	315
2142	NP_001349069.1	XP_021331108.1	51.550	258	125	0	58	315
2143	NP_001349069.1	XP_021331108.1	51.938	258	124	0	58	315
2144	NP_001349069.1	XP_021331108.1	51.550	258	125	0	58	315
2145	NP_001349069.1	XP_021331108.1	53.307	257	119	1	58	313
2146	NP_001349069.1	XP_021331108.1	51.938	258	124	0	58	315
2147	NP_001349069.1	XP_021331108.1	48.727	275	137	1	41	315
2148	NP_001349069.1	XP_021331108.1	51.163	258	126	0	58	315
2149	NP_001349069.1	XP_021331108.1	52.326	258	123	0	58	315
2150	NP_001349069.1	XP_021331108.1	51.550	258	125	0	58	315
2151	NP_001349069.1	XP_021331108.1	50.193	259	128	1	58	315
2152	NP_001349069.1	XP_021331108.1	48.689	267	137	0	49	315
2153	NP_001349069.1	XP_021331108.1	54.468	235	106	1	82	315
2154	NP_001349069.1	XP_021331108.1	49.356	233	118	0	58	290
2155	NP_001349069.1	XP_021331195.1	54.688	256	116	0	58	313
2156	NP_001349069.1	XP_021331195.1	53.101	258	121	0	58	315
2157	NP_001349069.1	XP_021331195.1	52.713	258	122	0	58	315
2158	NP_001349069.1	XP_021331195.1	47.039	304	131	1	46	319
2159	NP_001349069.1	XP_021331195.1	52.920	274	128	1	58	330
2160	NP_001349069.1	XP_021331195.1	52.713	258	122	0	58	315
2161	NP_001349069.1	XP_021331195.1	51.938	258	124	0	58	315
2162	NP_001349069.1	XP_021331195.1	53.516	256	119	0	58	313
2163	NP_001349069.1	XP_021331195.1	50.181	277	137	1	58	333
2164	NP_001349069.1	XP_021331195.1	52.326	258	123	0	58	315
2165	NP_001349069.1	XP_021331195.1	52.569	253	120	0	63	315
2166	NP_001349069.1	XP_021331195.1	51.953	256	123	0	58	313
2167	NP_001349069.1	XP_021331195.1	51.163	258	126	0	58	315
2168	NP_001349069.1	XP_021331195.1	52.326	258	123	0	58	315
2169	NP_001349069.1	XP_021331195.1	52.809	267	125	1	50	315
2170	NP_001349069.1	XP_021331195.1	52.222	270	129	0	46	315
2171	NP_001349069.1	XP_021331195.1	51.163	258	126	0	58	315
2172	NP_001349069.1	XP_021331195.1	51.550	258	125	0	58	315
2173	NP_001349069.1	XP_021331195.1	53.906	256	118	0	60	315
2174	NP_001349069.1	XP_021331195.1	51.550	258	125	0	58	315
2175	NP_001349069.1	XP_021331195.1	51.163	258	126	0	58	315
2176	NP_001349069.1	XP_021331195.1	50.775	258	127	0	58	315

2177	NP_001349069.1	XP_021331195.1	46.154	286	152	1	33	316
2178	NP_001349069.1	XP_021331195.1	51.938	258	124	0	58	315
2179	NP_001349069.1	XP_021331195.1	48.252	286	118	1	60	315
2180	NP_001349069.1	XP_021331195.1	52.713	258	122	0	58	315
2181	NP_001349069.1	XP_021331195.1	50.000	256	128	0	58	313
2182	NP_001349069.1	XP_021331195.1	50.579	259	128	0	58	316
2183	NP_001349069.1	XP_021331195.1	49.807	259	130	0	58	316
2184	NP_001349069.1	XP_021331195.1	51.163	258	126	0	58	315
2185	NP_001349069.1	XP_021331195.1	50.000	258	129	0	58	315
2186	NP_001349069.1	XP_021331195.1	49.813	267	134	0	49	315
2187	NP_001349069.1	XP_021331195.1	50.000	258	129	0	58	315
2188	NP_001349069.1	XP_021331195.1	49.807	259	130	0	58	316
2189	NP_001349069.1	XP_021331195.1	49.618	262	132	0	49	310
2190	NP_001349069.1	XP_021331195.1	49.219	256	130	0	58	313
2191	NP_001349069.1	XP_021331195.1	38.264	311	140	1	58	316
2192	NP_001349069.1	XP_021331195.1	39.146	281	147	1	58	314
2193	NP_001349069.1	XP_021331376.1	49.259	270	137	0	46	315
2194	NP_001349069.1	XP_021331376.1	50.775	258	127	0	58	315
2195	NP_001349069.1	XP_021331376.1	50.741	270	133	0	46	315
2196	NP_001349069.1	XP_021331376.1	53.488	258	120	0	58	315
2197	NP_001349069.1	XP_021331376.1	49.458	277	139	1	58	333
2198	NP_001349069.1	XP_021331376.1	51.938	258	124	0	58	315
2199	NP_001349069.1	XP_021331376.1	53.725	255	118	0	58	312
2200	NP_001349069.1	XP_021331376.1	50.775	258	127	0	58	315
2201	NP_001349069.1	XP_021331376.1	50.752	266	131	0	50	315
2202	NP_001349069.1	XP_021331376.1	51.953	256	123	0	60	315
2203	NP_001349069.1	XP_021331376.1	49.225	258	131	0	58	315
2204	NP_001349069.1	XP_021331376.1	49.630	270	136	0	46	315
2205	NP_001349069.1	XP_021331376.1	49.612	258	130	0	58	315
2206	NP_001349069.1	XP_021331376.1	48.561	278	137	1	44	315
2207	NP_001349069.1	XP_021331376.1	50.973	257	126	0	59	315
2208	NP_001349069.1	XP_021331376.1	45.896	268	145	0	48	315
2209	NP_001349069.1	XP_021331376.1	47.436	234	123	0	82	315
2210	NP_001349069.1	XP_021331131.1	50.198	253	126	0	63	315
2211	NP_001349069.1	XP_021331131.1	42.642	265	152	0	50	314
2212	NP_001349069.1	XP_021331131.1	42.751	269	154	0	48	316
2213	NP_001349069.1	XP_021331106.1	53.077	260	122	0	56	315
2214	NP_001349069.1	XP_021331106.1	53.846	260	120	0	56	315
2215	NP_001349069.1	XP_021331106.1	51.550	258	125	0	58	315
2216	NP_001349069.1	XP_021331106.1	51.938	258	124	0	58	315
2217	NP_001349069.1	XP_021331106.1	51.341	261	127	0	56	316
2218	NP_001349069.1	XP_021331106.1	50.385	260	129	0	56	315
2219	NP_001349069.1	XP_021331106.1	51.154	260	127	0	56	315

2220	NP_001349069.1	XP_021331106.1	50.000	260	130	0	56	315
2221	NP_001349069.1	XP_021331106.1	52.344	256	122	0	60	315
2222	NP_001349069.1	XP_021331106.1	48.746	279	142	1	56	333
2223	NP_001349069.1	XP_021331106.1	48.746	279	142	1	56	333
2224	NP_001349069.1	XP_021331106.1	50.958	261	128	0	56	316
2225	NP_001349069.1	XP_021331106.1	51.172	256	125	0	60	315
2226	NP_001349069.1	XP_021331106.1	50.000	260	130	0	56	315
2227	NP_001349069.1	XP_021331106.1	48.864	264	135	0	56	319
2228	NP_001349069.1	XP_021331106.1	48.519	270	139	0	46	315
2229	NP_001349069.1	XP_021331106.1	48.339	271	140	0	45	315
2230	NP_001349069.1	XP_021331106.1	47.635	296	121	1	56	317
2231	NP_001349069.1	XP_021331106.1	52.137	234	112	0	82	315
2232	NP_001349069.1	XP_021331106.1	45.578	294	126	1	56	315
2233	NP_001349069.1	XP_021331106.1	52.486	181	86	0	139	319
2234	NP_001349069.1	XP_021327005.1	50.000	270	134	1	42	310
2235	NP_001349069.1	XP_021327005.1	49.561	228	115	0	88	315
2236	NP_001349069.1	XP_021327005.1	38.644	295	145	3	58	316
2237	NP_001349069.1	XP_021327005.1	38.961	308	148	3	49	318
2238	NP_001349069.1	XP_021327005.1	54.335	173	79	0	144	316
2239	NP_001349069.1	XP_021327005.1	38.721	297	134	3	56	310
2240	NP_001349069.1	XP_021327005.1	48.544	206	105	1	50	254
2241	NP_001349069.1	XP_021330544.1	50.000	270	134	1	42	310
2242	NP_001349069.1	XP_021330544.1	49.561	228	115	0	88	315
2243	NP_001349069.1	XP_021330544.1	38.644	295	145	3	58	316
2244	NP_001349069.1	XP_021330544.1	38.961	308	148	3	49	318
2245	NP_001349069.1	XP_021330544.1	54.335	173	79	0	144	316
2246	NP_001349069.1	XP_021330544.1	38.721	297	134	3	56	310
2247	NP_001349069.1	XP_021330544.1	48.544	206	105	1	50	254
2248	NP_001349069.1	XP_021331254.1	49.612	258	130	0	58	315
2249	NP_001349069.1	XP_021331254.1	46.367	289	154	1	46	333
2250	NP_001349069.1	XP_021331254.1	48.375	277	142	1	58	333
2251	NP_001349069.1	XP_021331254.1	48.837	258	132	0	58	315
2252	NP_001349069.1	XP_021331254.1	50.996	251	123	0	65	315
2253	NP_001349069.1	XP_021331254.1	48.519	270	139	0	46	315
2254	NP_001349069.1	XP_021331254.1	48.927	233	119	0	58	290
2255	NP_001349069.1	XP_021331254.1	45.977	87	47	0	233	319
2256	NP_001349069.1	XP_017209942.1	51.953	256	123	0	58	313
2257	NP_001349069.1	XP_017209942.1	49.813	267	133	1	50	315
2258	NP_001349069.1	XP_017209942.1	49.782	229	115	0	58	286
2259	NP_001349069.1	XP_017209942.1	43.678	174	96	1	33	204
2260	NP_001349069.1	XP_001923745.2	51.163	258	126	0	58	315
2261	NP_001349069.1	XP_001923745.2	50.388	258	128	0	58	315
2262	NP_001349069.1	XP_001923745.2	49.627	268	135	0	46	313

2263	NP_001349069.1	XP_001923745.2	49.612	258	130	0	58	315
2264	NP_001349069.1	XP_001923745.2	50.388	258	128	0	58	315
2265	NP_001349069.1	XP_001923745.2	48.175	274	141	1	58	330
2266	NP_001349069.1	XP_001923745.2	49.618	262	132	0	58	319
2267	NP_001349069.1	XP_001923745.2	49.813	267	134	0	47	313
2268	NP_001349069.1	XP_001923745.2	50.376	266	132	0	50	315
2269	NP_001349069.1	XP_001923745.2	46.341	287	150	2	58	340
2270	NP_001349069.1	XP_001923745.2	50.198	253	126	0	58	310
2271	NP_001349069.1	XP_001923745.2	50.388	258	128	0	58	315
2272	NP_001349069.1	XP_001923745.2	48.881	268	137	0	46	313
2273	NP_001349069.1	XP_001923745.2	48.828	256	131	0	58	313
2274	NP_001349069.1	XP_001923745.2	49.434	265	133	1	50	313
2275	NP_001349069.1	XP_001923745.2	48.908	229	117	0	58	286
2276	NP_001349069.1	XP_001923745.2	48.404	188	96	1	144	330
2277	NP_001349069.1	XP_021331276.1	51.181	254	124	0	60	313
2278	NP_001349069.1	XP_021331276.1	48.689	267	137	0	49	315
2279	NP_001349069.1	XP_021331276.1	51.172	256	125	0	58	313
2280	NP_001349069.1	XP_021331276.1	48.828	256	131	0	60	315
2281	NP_001349069.1	XP_021331276.1	50.391	256	127	0	58	313
2282	NP_001349069.1	XP_021331276.1	49.603	252	127	0	60	311
2283	NP_001349069.1	XP_021331276.1	44.590	305	135	2	45	315
2284	NP_001349069.1	XP_021331276.1	48.496	266	137	0	48	313
2285	NP_001349069.1	XP_021331276.1	48.855	262	134	0	50	311
2286	NP_001349069.1	XP_021331276.1	49.225	258	131	0	58	315
2287	NP_001349069.1	XP_021331276.1	49.225	258	131	0	58	315
2288	NP_001349069.1	XP_021331276.1	48.062	258	134	0	58	315
2289	NP_001349069.1	XP_021331276.1	45.896	268	145	0	48	315
2290	NP_001349069.1	XP_021331276.1	48.837	258	132	0	58	315
2291	NP_001349069.1	XP_021331276.1	50.000	200	100	0	58	257
2292	NP_001349069.1	XP_021331276.1	47.619	168	88	0	146	313
2293	NP_001349069.1	XP_021331276.1	45.223	157	78	1	167	315
2294	NP_001349069.1	XP_021331276.1	41.667	132	76	1	203	333
2295	NP_001349069.1	XP_021330441.1	54.321	243	111	0	69	311
2296	NP_001349069.1	XP_021330441.1	50.781	256	126	0	58	313
2297	NP_001349069.1	XP_021330441.1	48.908	229	117	0	58	286
2298	NP_001349069.1	XP_021330441.1	51.323	189	92	0	125	313
2299	NP_001349069.1	XP_021330441.1	51.240	121	58	1	211	330
2300	NP_001349069.1	XP_021330441.1	48.000	50	26	0	266	315
2301	NP_001349069.1	XP_021330455.1	48.881	268	137	0	48	315
2302	NP_001349069.1	XP_021330455.1	47.955	269	140	0	45	313
2303	NP_001349069.1	XP_021330455.1	47.126	261	138	0	58	318
2304	NP_001349069.1	XP_021330455.1	47.638	254	133	0	58	311
2305	NP_001349069.1	XP_021330455.1	46.792	265	140	1	50	313

2306	NP_001349069.1	XP_021330455.1	46.332	259	139	0	58	316
2307	NP_001349069.1	XP_021330455.1	42.230	296	143	1	46	313
2308	NP_001349069.1	XP_021330455.1	39.860	286	170	1	33	316
2309	NP_001349069.1	XP_021330455.1	48.000	200	104	0	120	319
2310	NP_001349069.1	XP_021330454.1	48.881	268	137	0	48	315
2311	NP_001349069.1	XP_021330454.1	47.955	269	140	0	45	313
2312	NP_001349069.1	XP_021330454.1	47.126	261	138	0	58	318
2313	NP_001349069.1	XP_021330454.1	47.638	254	133	0	58	311
2314	NP_001349069.1	XP_021330454.1	46.792	265	140	1	50	313
2315	NP_001349069.1	XP_021330454.1	46.332	259	139	0	58	316
2316	NP_001349069.1	XP_021330454.1	42.230	296	143	1	46	313
2317	NP_001349069.1	XP_021330454.1	39.860	286	170	1	33	316
2318	NP_001349069.1	XP_021330454.1	48.000	200	104	0	120	319
2319	NP_001349069.1	XP_021331458.1	50.187	267	132	1	50	315
2320	NP_001349069.1	XP_021331458.1	51.172	256	125	0	58	313
2321	NP_001349069.1	XP_021331458.1	49.345	229	116	0	58	286
2322	NP_001349069.1	XP_021331458.1	43.678	174	96	1	33	204
2323	NP_001349069.1	XP_021331156.1	51.071	280	132	1	40	319
2324	NP_001349069.1	XP_021331156.1	51.163	258	126	0	58	315
2325	NP_001349069.1	XP_021331156.1	52.510	259	122	1	58	316
2326	NP_001349069.1	XP_021331156.1	50.781	256	126	0	58	313
2327	NP_001349069.1	XP_021331156.1	50.370	270	134	0	46	315
2328	NP_001349069.1	XP_021331156.1	50.775	258	126	1	58	315
2329	NP_001349069.1	XP_021331156.1	47.653	277	144	1	58	333
2330	NP_001349069.1	XP_021331156.1	48.736	277	141	1	58	333
2331	NP_001349069.1	XP_021331156.1	51.163	258	126	0	58	315
2332	NP_001349069.1	XP_021331156.1	47.059	289	152	1	46	333
2333	NP_001349069.1	XP_021331156.1	50.388	258	128	0	58	315
2334	NP_001349069.1	XP_021331156.1	50.000	258	129	0	58	315
2335	NP_001349069.1	XP_021331156.1	49.813	267	133	1	50	315
2336	NP_001349069.1	XP_021331156.1	50.775	258	127	0	58	315
2337	NP_001349069.1	XP_021331156.1	50.965	259	126	1	58	315
2338	NP_001349069.1	XP_021331156.1	50.388	258	128	0	58	315
2339	NP_001349069.1	XP_021331156.1	49.104	279	137	1	38	316
2340	NP_001349069.1	XP_021331156.1	42.442	344	140	3	29	315
2341	NP_001349069.1	XP_021331156.1	49.225	258	131	0	58	315
2342	NP_001349069.1	XP_021331156.1	50.000	256	128	0	60	315
2343	NP_001349069.1	XP_021331156.1	51.575	254	122	1	58	311
2344	NP_001349069.1	XP_021331156.1	50.000	258	129	0	58	315
2345	NP_001349069.1	XP_021331156.1	47.407	270	142	0	46	315
2346	NP_001349069.1	XP_021331156.1	44.599	287	159	0	29	315
2347	NP_001349069.1	XP_021331156.1	47.368	266	140	0	50	315
2348	NP_001349069.1	XP_021331156.1	45.487	277	150	1	58	333

2349	NP_001349069.1	XP_021331156.1	48.450	258	133	0	58	315
2350	NP_001349069.1	XP_021331156.1	48.450	258	133	0	58	315
2351	NP_001349069.1	XP_021331156.1	45.865	266	144	0	50	315
2352	NP_001349069.1	XP_021331156.1	48.062	258	134	0	58	315
2353	NP_001349069.1	XP_021331156.1	47.287	258	136	0	58	315
2354	NP_001349069.1	XP_021331156.1	48.263	259	133	1	58	316
2355	NP_001349069.1	XP_021331156.1	45.312	256	140	0	60	315
2356	NP_001349069.1	XP_021331156.1	44.664	253	140	0	63	315
2357	NP_001349069.1	XP_021331156.1	46.502	243	129	1	49	290
2358	NP_001349069.1	XP_021331156.1	37.864	206	119	2	108	313
2359	NP_001349069.1	XP_021331333.1	50.746	268	132	0	48	315
2360	NP_001349069.1	XP_021331333.1	50.350	286	141	1	46	330
2361	NP_001349069.1	XP_021331333.1	52.692	260	123	0	56	315
2362	NP_001349069.1	XP_021331333.1	51.311	267	130	0	49	315
2363	NP_001349069.1	XP_021331333.1	53.077	260	122	0	56	315
2364	NP_001349069.1	XP_021331333.1	52.692	260	123	0	56	315
2365	NP_001349069.1	XP_021331333.1	51.938	258	124	0	58	315
2366	NP_001349069.1	XP_021331333.1	51.095	274	133	1	58	330
2367	NP_001349069.1	XP_021331333.1	51.538	260	126	0	56	315
2368	NP_001349069.1	XP_021331333.1	52.713	258	122	0	58	315
2369	NP_001349069.1	XP_021331333.1	51.923	260	125	0	56	315
2370	NP_001349069.1	XP_021331333.1	51.923	260	125	0	56	315
2371	NP_001349069.1	XP_021331333.1	51.923	260	125	0	56	315
2372	NP_001349069.1	XP_021331333.1	51.923	260	125	0	56	315
2373	NP_001349069.1	XP_021331333.1	51.163	258	126	0	56	313
2374	NP_001349069.1	XP_021331333.1	50.385	260	129	0	56	315
2375	NP_001349069.1	XP_021331333.1	50.385	260	129	0	56	315
2376	NP_001349069.1	XP_021331333.1	51.538	260	126	0	56	315
2377	NP_001349069.1	XP_021331333.1	49.231	260	132	0	56	315
2378	NP_001349069.1	XP_021331333.1	48.913	276	140	1	56	330
2379	NP_001349069.1	XP_021331333.1	50.000	260	130	0	56	315
2380	NP_001349069.1	XP_021331333.1	50.000	260	130	0	56	315
2381	NP_001349069.1	XP_021331333.1	50.198	253	126	0	63	315
2382	NP_001349069.1	XP_021331333.1	49.027	257	131	0	59	315
2383	NP_001349069.1	XP_021331333.1	49.603	252	127	0	56	307
2384	NP_001349069.1	XP_021331333.1	45.703	256	139	0	60	315
2385	NP_001349069.1	XP_021331333.1	41.077	297	148	3	39	315
2386	NP_001349069.1	XP_021331333.1	43.523	193	105	1	124	316
2387	NP_001349069.1	XP_021330715.1	51.311	267	130	0	49	315
2388	NP_001349069.1	XP_021330715.1	53.846	260	120	0	56	315
2389	NP_001349069.1	XP_021330715.1	54.724	254	115	0	60	313
2390	NP_001349069.1	XP_021330715.1	46.104	308	165	1	27	333
2391	NP_001349069.1	XP_021330715.1	52.692	260	123	0	56	315

2392	NP_001349069.1	XP_021330715.1	52.107	261	125	0	56	316
2393	NP_001349069.1	XP_021330715.1	52.692	260	123	0	56	315
2394	NP_001349069.1	XP_021330715.1	47.195	303	152	2	21	315
2395	NP_001349069.1	XP_021330715.1	52.308	260	124	0	56	315
2396	NP_001349069.1	XP_021330715.1	52.692	260	123	0	56	315
2397	NP_001349069.1	XP_021330715.1	50.187	267	133	0	49	315
2398	NP_001349069.1	XP_021330715.1	52.326	258	123	0	58	315
2399	NP_001349069.1	XP_021330715.1	52.490	261	124	0	56	316
2400	NP_001349069.1	XP_021330715.1	51.311	267	130	0	49	315
2401	NP_001349069.1	XP_021330715.1	50.192	261	130	0	56	316
2402	NP_001349069.1	XP_021330715.1	52.652	264	125	0	56	319
2403	NP_001349069.1	XP_021330715.1	50.769	260	128	0	56	315
2404	NP_001349069.1	XP_021330715.1	50.562	267	132	0	49	315
2405	NP_001349069.1	XP_021330715.1	48.936	282	143	1	50	330
2406	NP_001349069.1	XP_021330715.1	51.538	260	126	0	56	315
2407	NP_001349069.1	XP_021330715.1	50.000	260	130	0	56	315
2408	NP_001349069.1	XP_021330715.1	48.302	265	137	0	50	314
2409	NP_001349069.1	XP_021330715.1	48.364	275	141	1	56	329
2410	NP_001349069.1	XP_021330715.1	49.231	260	132	0	56	315
2411	NP_001349069.1	XP_021330715.1	49.270	274	138	1	58	330
2412	NP_001349069.1	XP_021330715.1	50.781	256	125	1	56	311
2413	NP_001349069.1	XP_021330715.1	47.670	279	145	1	56	333
2414	NP_001349069.1	XP_021330715.1	48.077	260	135	0	56	315
2415	NP_001349069.1	XP_021330715.1	47.826	276	143	1	56	330
2416	NP_001349069.1	XP_021330715.1	48.846	260	133	0	56	315
2417	NP_001349069.1	XP_021330715.1	48.846	260	133	0	56	315
2418	NP_001349069.1	XP_021330715.1	46.377	276	147	1	56	330
2419	NP_001349069.1	XP_021330715.1	47.287	258	135	1	56	313
2420	NP_001349069.1	XP_021330715.1	44.105	229	127	1	29	257
2421	NP_001349069.1	XP_021330715.1	50.769	65	32	0	251	315
2422	NP_001349069.1	XP_017211108.2	49.609	256	129	0	58	313
2423	NP_001349069.1	XP_017211108.2	47.410	251	132	0	63	313
2424	NP_001349069.1	XP_017211108.2	46.850	254	135	0	58	311
2425	NP_001349069.1	XP_017211108.2	44.531	256	138	2	58	313
2426	NP_001349069.1	XP_017211108.2	48.444	225	116	0	91	315
2427	NP_001349069.1	XP_017211108.2	48.214	168	87	0	146	313
2428	NP_001349069.1	XP_017211108.2	47.183	142	75	0	172	313
2429	NP_001349069.1	XP_021331415.1	52.326	258	123	0	58	315
2430	NP_001349069.1	XP_021331415.1	51.550	258	125	0	58	315
2431	NP_001349069.1	XP_021331415.1	51.550	258	125	0	58	315
2432	NP_001349069.1	XP_021331415.1	49.813	267	134	0	49	315
2433	NP_001349069.1	XP_021331415.1	51.550	258	125	0	58	315
2434	NP_001349069.1	XP_021331415.1	52.918	257	121	0	60	316

2435	NP_001349069.1	XP_021331415.1	52.344	256	122	0	60	315
2436	NP_001349069.1	XP_021331415.1	46.667	285	150	1	33	315
2437	NP_001349069.1	XP_021331415.1	47.292	277	145	1	58	333
2438	NP_001349069.1	XP_021331415.1	49.612	258	130	0	58	315
2439	NP_001349069.1	XP_021331415.1	51.562	256	124	0	60	315
2440	NP_001349069.1	XP_021331415.1	52.941	238	112	0	78	315
2441	NP_001349069.1	XP_021331415.1	46.809	282	122	1	59	312
2442	NP_001349069.1	XP_021331415.1	44.884	303	120	2	58	313
2443	NP_001349069.1	XP_021331415.1	45.909	220	100	1	58	258
2444	NP_001349069.1	XP_021331415.1	42.222	45	26	0	46	90
2445	NP_001349069.1	XP_021329614.1	50.368	272	134	1	42	312
2446	NP_001349069.1	XP_021329614.1	50.000	268	134	0	48	315
2447	NP_001349069.1	XP_021329614.1	46.996	283	150	0	28	310
2448	NP_001349069.1	XP_021329614.1	48.828	256	131	0	60	315
2449	NP_001349069.1	XP_021329614.1	48.120	266	138	0	50	315
2450	NP_001349069.1	XP_021329614.1	47.287	258	136	0	59	316
2451	NP_001349069.1	XP_021329614.1	42.244	303	139	3	50	316
2452	NP_001349069.1	XP_021329614.1	50.000	228	114	0	88	315
2453	NP_001349069.1	XP_021329614.1	47.234	235	124	0	81	315
2454	NP_001349069.1	XP_021329614.1	50.000	98	49	0	49	146
2455	NP_001349069.1	XP_021329614.1	42.500	40	23	0	276	315
2456	NP_001349069.1	XP_021331370.1	49.618	262	132	0	58	319
2457	NP_001349069.1	XP_021331370.1	49.600	250	126	0	58	307
2458	NP_001349069.1	XP_021331370.1	54.113	231	106	0	85	315
2459	NP_001349069.1	XP_017210945.1	47.766	291	150	2	42	330
2460	NP_001349069.1	XP_017210945.1	49.603	252	127	0	58	309
2461	NP_001349069.1	XP_021330459.1	51.341	261	123	1	60	316
2462	NP_001349069.1	XP_021330459.1	48.227	282	146	0	34	315
2463	NP_001349069.1	XP_021330459.1	50.566	265	127	1	56	316
2464	NP_001349069.1	XP_021330459.1	48.718	273	136	2	47	315
2465	NP_001349069.1	XP_021330459.1	50.579	259	124	1	60	314
2466	NP_001349069.1	XP_021330459.1	44.656	262	141	1	56	313
2467	NP_001349069.1	XP_021330459.1	41.924	291	160	3	34	316
2468	NP_001349069.1	XP_021330459.1	43.233	266	151	0	48	313
2469	NP_001349069.1	XP_021330459.1	38.636	88	54	0	231	318
2470	NP_001349069.1	XP_021330459.1	40.909	44	26	0	46	89
2471	NP_001349069.1	XP_021330576.1	50.699	286	113	2	58	315
2472	NP_001349069.1	XP_021330576.1	52.510	259	123	0	58	316
2473	NP_001349069.1	XP_021330576.1	52.809	267	126	0	49	315
2474	NP_001349069.1	XP_021330576.1	53.488	258	120	0	58	315
2475	NP_001349069.1	XP_021330576.1	49.117	283	138	1	39	315
2476	NP_001349069.1	XP_021330576.1	53.101	258	121	0	58	315
2477	NP_001349069.1	XP_021330576.1	52.612	268	127	0	48	315

2478	NP_001349069.1	XP_021330576.1	52.326	258	123	0	58	315
2479	NP_001349069.1	XP_021330576.1	51.938	258	124	0	58	315
2480	NP_001349069.1	XP_021330576.1	51.825	274	131	1	58	330
2481	NP_001349069.1	XP_021330576.1	52.326	258	123	0	58	315
2482	NP_001349069.1	XP_021330576.1	49.635	274	137	1	58	330
2483	NP_001349069.1	XP_021330576.1	51.550	258	125	0	58	315
2484	NP_001349069.1	XP_021330576.1	51.938	258	124	0	58	315
2485	NP_001349069.1	XP_021330576.1	51.938	258	124	0	58	315
2486	NP_001349069.1	XP_021330576.1	52.290	262	125	0	58	319
2487	NP_001349069.1	XP_021330576.1	50.391	256	127	0	58	313
2488	NP_001349069.1	XP_021330576.1	51.562	256	124	0	58	313
2489	NP_001349069.1	XP_021330576.1	51.938	258	124	0	58	315
2490	NP_001349069.1	XP_021330576.1	51.163	258	126	0	58	315
2491	NP_001349069.1	XP_021330576.1	51.550	258	125	0	58	315
2492	NP_001349069.1	XP_021330576.1	52.713	258	122	0	58	315
2493	NP_001349069.1	XP_021330576.1	50.388	258	128	0	58	315
2494	NP_001349069.1	XP_021330576.1	51.163	258	126	0	58	315
2495	NP_001349069.1	XP_021330576.1	51.163	258	126	0	58	315
2496	NP_001349069.1	XP_021330576.1	50.388	258	128	0	58	315
2497	NP_001349069.1	XP_021330576.1	50.193	259	129	0	58	316
2498	NP_001349069.1	XP_021330576.1	51.163	258	126	0	58	315
2499	NP_001349069.1	XP_021330576.1	49.438	267	135	0	49	315
2500	NP_001349069.1	XP_021330576.1	50.388	258	128	0	58	315
2501	NP_001349069.1	XP_021330576.1	50.775	258	127	0	58	315
2502	NP_001349069.1	XP_021330576.1	50.388	258	128	0	58	315
2503	NP_001349069.1	XP_021330576.1	50.388	258	128	0	58	315
2504	NP_001349069.1	XP_021330576.1	50.000	258	129	0	58	315
2505	NP_001349069.1	XP_021330576.1	49.225	258	131	0	58	315
2506	NP_001349069.1	XP_021330576.1	49.219	256	129	1	58	313
2507	NP_001349069.1	XP_021330576.1	45.583	283	127	1	60	315
2508	NP_001349069.1	XP_021330576.1	45.455	286	154	1	33	316
2509	NP_001349069.1	XP_021330576.1	41.853	313	127	2	58	315
2510	NP_001349069.1	XP_021330576.1	42.697	267	153	0	63	329
2511	NP_001349069.1	XP_021330576.1	48.684	228	117	0	58	285
2512	NP_001349069.1	XP_021330576.1	45.238	168	92	0	146	313
2513	NP_001349069.1	XP_017211205.2	49.438	267	135	0	49	315
2514	NP_001349069.1	XP_017211205.2	48.689	267	137	0	49	315
2515	NP_001349069.1	XP_017211205.2	49.438	267	135	0	49	315
2516	NP_001349069.1	XP_017211205.2	49.438	267	135	0	49	315
2517	NP_001349069.1	XP_017211205.2	47.552	286	122	1	58	315
2518	NP_001349069.1	XP_017211205.2	50.391	256	127	0	58	313
2519	NP_001349069.1	XP_017211205.2	50.584	257	127	0	60	316
2520	NP_001349069.1	XP_017211205.2	48.736	277	141	1	58	333

2521	NP_001349069.1	XP_017211205.2	49.438	267	135	0	49	315
2522	NP_001349069.1	XP_017211205.2	47.761	268	140	0	48	315
2523	NP_001349069.1	XP_017211205.2	46.043	278	144	1	44	315
2524	NP_001349069.1	XP_017211205.2	49.609	256	129	0	60	315
2525	NP_001349069.1	XP_017211205.2	46.465	297	155	2	48	340
2526	NP_001349069.1	XP_017211205.2	47.292	277	145	1	58	333
2527	NP_001349069.1	XP_017211205.2	47.778	270	141	0	46	315
2528	NP_001349069.1	XP_017211205.2	47.445	274	143	1	58	330
2529	NP_001349069.1	XP_017211205.2	48.837	258	132	0	58	315
2530	NP_001349069.1	XP_017211205.2	45.578	294	158	2	42	333
2531	NP_001349069.1	XP_017211205.2	48.485	264	136	0	50	313
2532	NP_001349069.1	XP_017211205.2	50.644	233	115	0	58	290
2533	NP_001349069.1	XP_021331395.1	54.148	229	105	0	68	296
2534	NP_001349069.1	XP_021331395.1	50.226	221	110	0	95	315
2535	NP_001349069.1	XP_021331395.1	48.416	221	114	0	48	268
2536	NP_001349069.1	XP_021331105.1	51.103	272	132	1	49	319
2537	NP_001349069.1	XP_021331105.1	52.030	271	129	1	46	315
2538	NP_001349069.1	XP_021331105.1	51.049	286	112	1	58	315
2539	NP_001349069.1	XP_021331105.1	52.326	258	123	0	58	315
2540	NP_001349069.1	XP_021331105.1	48.344	302	127	2	58	330
2541	NP_001349069.1	XP_021331105.1	53.725	255	118	0	58	312
2542	NP_001349069.1	XP_021331105.1	51.163	258	126	0	58	315
2543	NP_001349069.1	XP_021331105.1	52.326	258	123	0	58	315
2544	NP_001349069.1	XP_021331105.1	51.351	259	126	0	58	316
2545	NP_001349069.1	XP_021331105.1	52.713	258	122	0	58	315
2546	NP_001349069.1	XP_021331105.1	52.344	256	122	0	60	315
2547	NP_001349069.1	XP_021331105.1	52.326	258	123	0	58	315
2548	NP_001349069.1	XP_021331105.1	51.737	259	124	1	58	315
2549	NP_001349069.1	XP_021331105.1	51.172	256	125	0	58	313
2550	NP_001349069.1	XP_021331105.1	50.388	258	128	0	58	315
2551	NP_001349069.1	XP_021331105.1	50.973	257	126	0	59	315
2552	NP_001349069.1	XP_021331105.1	51.550	258	123	1	58	313
2553	NP_001349069.1	XP_021331105.1	50.388	258	128	0	58	315
2554	NP_001349069.1	XP_021331105.1	47.842	278	125	2	58	315
2555	NP_001349069.1	XP_021331105.1	51.082	231	111	1	58	286
2556	NP_001349069.1	XP_021331105.1	47.638	254	113	2	82	315
2557	NP_001349069.1	XP_021331312.1	49.027	257	131	0	57	313
2558	NP_001349069.1	XP_017210993.2	51.562	256	124	0	58	313
2559	NP_001349069.1	XP_017210993.2	49.811	265	132	1	50	313
2560	NP_001349069.1	XP_017210993.2	46.058	241	130	0	46	286
2561	NP_001349069.1	XP_017210993.2	48.404	188	96	1	144	330
2562	NP_001349069.1	XP_021331234.1	51.953	256	123	0	58	313
2563	NP_001349069.1	XP_021331234.1	46.304	257	137	1	58	314

2564	NP_001349069.1	XP_021331234.1	47.547	265	138	1	50	313
2565	NP_001349069.1	XP_021331234.1	42.960	277	158	0	58	334
2566	NP_001349069.1	XP_021331234.1	48.148	216	111	1	119	333
2567	NP_001349069.1	XP_021331169.1	53.488	258	120	0	58	315
2568	NP_001349069.1	XP_021331169.1	51.163	258	126	0	58	315
2569	NP_001349069.1	XP_021331169.1	51.172	256	125	0	60	315
2570	NP_001349069.1	XP_021331169.1	53.101	258	121	0	58	315
2571	NP_001349069.1	XP_021331169.1	53.488	258	120	0	58	315
2572	NP_001349069.1	XP_021331169.1	51.953	256	123	0	60	315
2573	NP_001349069.1	XP_021331169.1	51.838	272	130	1	60	330
2574	NP_001349069.1	XP_021331169.1	49.225	258	131	0	58	315
2575	NP_001349069.1	XP_021331169.1	50.193	259	129	0	58	316
2576	NP_001349069.1	XP_021331169.1	49.612	258	130	0	58	315
2577	NP_001349069.1	XP_021331169.1	47.368	285	148	1	33	315
2578	NP_001349069.1	XP_021331169.1	49.225	258	131	0	58	315
2579	NP_001349069.1	XP_021331169.1	50.781	256	126	0	58	313
2580	NP_001349069.1	XP_021331169.1	51.709	234	113	0	82	315
2581	NP_001349069.1	XP_021331169.1	50.388	258	128	0	58	315
2582	NP_001349069.1	XP_021331169.1	49.621	264	133	0	50	313
2583	NP_001349069.1	XP_021331169.1	49.718	177	89	0	140	316
2584	NP_001349069.1	XP_021331211.1	48.421	285	143	2	60	340
2585	NP_001349069.1	XP_021331211.1	52.326	258	123	0	58	315
2586	NP_001349069.1	XP_021331211.1	49.291	282	115	1	60	313
2587	NP_001349069.1	XP_021331211.1	48.571	280	143	1	58	336
2588	NP_001349069.1	XP_021331211.1	51.550	258	125	0	58	315
2589	NP_001349069.1	XP_021331211.1	50.388	258	128	0	58	315
2590	NP_001349069.1	XP_021331211.1	50.000	256	128	0	58	313
2591	NP_001349069.1	XP_021331211.1	50.775	258	127	0	58	315
2592	NP_001349069.1	XP_021331211.1	49.421	259	131	0	58	316
2593	NP_001349069.1	XP_021331211.1	47.826	276	143	1	40	315
2594	NP_001349069.1	XP_021331211.1	48.188	276	142	1	40	315
2595	NP_001349069.1	XP_021331211.1	50.781	256	126	0	60	315
2596	NP_001349069.1	XP_021331211.1	49.225	258	131	0	58	315
2597	NP_001349069.1	XP_021331211.1	48.881	268	137	0	38	305
2598	NP_001349069.1	XP_021331211.1	50.388	258	128	0	58	315
2599	NP_001349069.1	XP_021331211.1	50.391	256	127	0	58	313
2600	NP_001349069.1	XP_021331211.1	49.248	266	135	0	50	315
2601	NP_001349069.1	XP_021331211.1	50.391	256	127	0	58	313
2602	NP_001349069.1	XP_021331211.1	49.612	258	130	0	58	315
2603	NP_001349069.1	XP_021331211.1	47.810	274	142	1	58	330
2604	NP_001349069.1	XP_021331211.1	49.219	256	130	0	58	313
2605	NP_001349069.1	XP_021331211.1	45.296	287	153	2	58	340
2606	NP_001349069.1	XP_021331211.1	50.407	246	122	0	70	315

2607	NP_001349069.1	XP_021331211.1	49.309	217	110	0	97	313
2608	NP_001349069.1	XP_021330549.1	47.387	287	123	1	58	316
2609	NP_001349069.1	XP_021330549.1	49.421	259	131	0	58	316
2610	NP_001349069.1	XP_021330549.1	51.982	227	109	0	85	311
2611	NP_001349069.1	XP_021330549.1	44.170	283	128	2	58	310
2612	NP_001349069.1	XP_021330549.1	52.683	205	97	0	112	316
2613	NP_001349069.1	XP_021330549.1	44.048	84	46	1	251	333
2614	NP_001349069.1	XP_021330548.1	47.387	287	123	1	58	316
2615	NP_001349069.1	XP_021330548.1	49.421	259	131	0	58	316
2616	NP_001349069.1	XP_021330548.1	51.982	227	109	0	85	311
2617	NP_001349069.1	XP_021330548.1	44.170	283	128	2	58	310
2618	NP_001349069.1	XP_021330548.1	52.683	205	97	0	112	316
2619	NP_001349069.1	XP_021330548.1	44.048	84	46	1	251	333
2620	NP_001349069.1	XP_017210088.1	47.387	287	123	1	58	316
2621	NP_001349069.1	XP_017210088.1	49.421	259	131	0	58	316
2622	NP_001349069.1	XP_017210088.1	51.982	227	109	0	85	311
2623	NP_001349069.1	XP_017210088.1	44.170	283	128	2	58	310
2624	NP_001349069.1	XP_017210088.1	52.683	205	97	0	112	316
2625	NP_001349069.1	XP_017210088.1	44.048	84	46	1	251	333
2626	NP_001349069.1	XP_021330547.1	47.387	287	123	1	58	316
2627	NP_001349069.1	XP_021330547.1	49.421	259	131	0	58	316
2628	NP_001349069.1	XP_021330547.1	51.982	227	109	0	85	311
2629	NP_001349069.1	XP_021330547.1	44.170	283	128	2	58	310
2630	NP_001349069.1	XP_021330547.1	52.683	205	97	0	112	316
2631	NP_001349069.1	XP_021330547.1	44.048	84	46	1	251	333
2632	NP_001349069.1	XP_021331218.1	48.507	268	137	1	50	316
2633	NP_001349069.1	XP_021331218.1	49.213	254	129	0	60	313
2634	NP_001349069.1	XP_021331218.1	47.368	247	126	2	69	315
2635	NP_001349069.1	XP_021331218.1	48.246	228	118	0	58	285
2636	NP_001349069.1	XP_021327002.1	50.000	254	126	1	59	311
2637	NP_001349069.1	XP_021327002.1	47.436	234	123	0	80	313
2638	NP_001349069.1	XP_021327002.1	51.010	198	97	0	58	255
2639	NP_001349069.1	XP_021327002.1	49.342	152	77	0	164	315
2640	NP_001349069.1	XP_021327002.1	45.361	97	53	0	220	316
2641	NP_001349069.1	XP_021327001.1	50.000	254	126	1	59	311
2642	NP_001349069.1	XP_021327001.1	47.436	234	123	0	80	313
2643	NP_001349069.1	XP_021327001.1	51.010	198	97	0	58	255
2644	NP_001349069.1	XP_021327001.1	49.342	152	77	0	164	315
2645	NP_001349069.1	XP_021327001.1	45.361	97	53	0	220	316
2646	NP_001349069.1	XP_021327000.1	50.000	254	126	1	59	311
2647	NP_001349069.1	XP_021327000.1	47.436	234	123	0	80	313
2648	NP_001349069.1	XP_021327000.1	51.010	198	97	0	58	255
2649	NP_001349069.1	XP_021327000.1	49.342	152	77	0	164	315

2650	NP_001349069.1	XP_021327000.1	45.361	97	53	0	220	316
2651	NP_001349069.1	XP_021326999.1	50.000	254	126	1	59	311
2652	NP_001349069.1	XP_021326999.1	47.436	234	123	0	80	313
2653	NP_001349069.1	XP_021326999.1	51.010	198	97	0	58	255
2654	NP_001349069.1	XP_021326999.1	49.342	152	77	0	164	315
2655	NP_001349069.1	XP_021326999.1	45.361	97	53	0	220	316
2656	NP_001349069.1	XP_021330541.1	50.000	254	126	1	59	311
2657	NP_001349069.1	XP_021330541.1	47.436	234	123	0	80	313
2658	NP_001349069.1	XP_021330541.1	51.010	198	97	0	58	255
2659	NP_001349069.1	XP_021330541.1	49.342	152	77	0	164	315
2660	NP_001349069.1	XP_021330541.1	45.361	97	53	0	220	316
2661	NP_001349069.1	XP_021330540.1	50.000	254	126	1	59	311
2662	NP_001349069.1	XP_021330540.1	47.436	234	123	0	80	313
2663	NP_001349069.1	XP_021330540.1	51.010	198	97	0	58	255
2664	NP_001349069.1	XP_021330540.1	49.342	152	77	0	164	315
2665	NP_001349069.1	XP_021330540.1	45.361	97	53	0	220	316
2666	NP_001349069.1	XP_021330539.1	50.000	254	126	1	59	311
2667	NP_001349069.1	XP_021330539.1	47.436	234	123	0	80	313
2668	NP_001349069.1	XP_021330539.1	51.010	198	97	0	58	255
2669	NP_001349069.1	XP_021330539.1	49.342	152	77	0	164	315
2670	NP_001349069.1	XP_021330539.1	45.361	97	53	0	220	316
2671	NP_001349069.1	XP_021330538.1	50.000	254	126	1	59	311
2672	NP_001349069.1	XP_021330538.1	47.436	234	123	0	80	313
2673	NP_001349069.1	XP_021330538.1	51.010	198	97	0	58	255
2674	NP_001349069.1	XP_021330538.1	49.342	152	77	0	164	315
2675	NP_001349069.1	XP_021330538.1	45.361	97	53	0	220	316
2676	NP_001349069.1	XP_021331122.1	50.973	257	125	1	58	313
2677	NP_001349069.1	XP_021331122.1	52.124	259	123	1	58	315
2678	NP_001349069.1	XP_021331122.1	49.438	267	134	1	50	315
2679	NP_001349069.1	XP_021331122.1	51.822	247	118	1	88	333
2680	NP_001349069.1	XP_021331122.1	46.341	246	132	0	40	285
2681	NP_001349069.1	XP_021331122.1	47.368	228	120	0	49	276
2682	NP_001349069.1	XP_017211155.1	50.000	254	127	0	60	313
2683	NP_001349069.1	XP_017211155.1	48.134	268	138	1	50	316
2684	NP_001349069.1	XP_017211155.1	46.964	247	127	2	69	315
2685	NP_001349069.1	XP_017211155.1	48.246	228	118	0	58	285
2686	NP_001349069.1	XP_021331430.1	50.000	254	127	0	58	311
2687	NP_001349069.1	XP_021331430.1	48.828	256	131	0	58	313
2688	NP_001349069.1	XP_021331430.1	52.991	234	110	0	82	315
2689	NP_001349069.1	XP_021331430.1	47.191	267	139	1	49	313
2690	NP_001349069.1	XP_021331430.1	43.023	258	143	2	33	286
2691	NP_001349069.1	XP_017210515.1	51.515	264	128	0	50	313
2692	NP_001349069.1	XP_017210515.1	49.057	265	134	1	50	313

2693	NP_001349069.1	XP_017210515.1	47.598	229	120	0	58	286
2694	NP_001349069.1	XP_017210515.1	49.468	188	94	1	144	330
2695	NP_001349069.1	XP_021330710.1	51.515	264	128	0	50	313
2696	NP_001349069.1	XP_021330710.1	46.801	297	153	3	50	341
2697	NP_001349069.1	XP_017211069.1	50.000	254	127	0	60	313
2698	NP_001349069.1	XP_017211069.1	48.134	268	138	1	50	316
2699	NP_001349069.1	XP_017211069.1	46.964	247	127	2	69	315
2700	NP_001349069.1	XP_017211069.1	48.684	228	117	0	58	285
2701	NP_001349069.1	XP_021327018.1	47.387	287	123	1	58	316
2702	NP_001349069.1	XP_021327018.1	49.807	259	130	0	58	316
2703	NP_001349069.1	XP_021327018.1	51.982	227	109	0	85	311
2704	NP_001349069.1	XP_021327018.1	44.170	283	128	2	58	310
2705	NP_001349069.1	XP_021327018.1	53.171	205	96	0	112	316
2706	NP_001349069.1	XP_021327018.1	45.238	84	45	1	251	333
2707	NP_001349069.1	XP_021331407.1	45.426	317	141	3	28	315
2708	NP_001349069.1	XP_021331407.1	51.562	256	124	0	58	313
2709	NP_001349069.1	XP_021331407.1	48.014	277	143	1	58	333
2710	NP_001349069.1	XP_021331407.1	45.631	309	117	1	58	315
2711	NP_001349069.1	XP_021331407.1	47.440	293	128	2	49	315
2712	NP_001349069.1	XP_021331407.1	42.073	328	155	3	59	351
2713	NP_001349069.1	XP_021331407.1	43.243	259	147	0	58	316
2714	NP_001349069.1	XP_021331407.1	45.382	249	136	0	63	311
2715	NP_001349069.1	XP_021331407.1	43.233	266	151	0	48	313
2716	NP_001349069.1	XP_021331407.1	48.000	225	117	0	91	315
2717	NP_001349069.1	NP_001104625.1	51.136	264	129	0	50	313
2718	NP_001349069.1	NP_001104625.1	49.057	265	134	1	50	313
2719	NP_001349069.1	NP_001104625.1	47.162	229	121	0	58	286
2720	NP_001349069.1	NP_001104625.1	49.468	188	94	1	144	330
2721	NP_001349069.1	XP_021331389.1	45.031	322	170	4	25	341
2722	NP_001349069.1	XP_001336870.2	51.550	258	125	0	58	315
2723	NP_001349069.1	XP_001336870.2	46.454	282	123	1	58	311
2724	NP_001349069.1	XP_001336870.2	48.638	257	132	0	58	314
2725	NP_001349069.1	XP_001336870.2	47.222	252	133	0	58	309
2726	NP_001349069.1	XP_001336870.2	49.362	235	119	0	81	315
2727	NP_001349069.1	XP_001336870.2	45.926	270	142	1	58	327
2728	NP_001349069.1	XP_001336870.2	33.333	96	59	1	23	113
2729	NP_001349069.1	XP_021331277.1	44.944	267	147	0	50	316
2730	NP_001349069.1	XP_021331277.1	47.490	259	130	1	63	315
2731	NP_001349069.1	XP_021331277.1	43.478	276	150	1	45	314
2732	NP_001349069.1	XP_021331277.1	46.185	249	134	0	63	311
2733	NP_001349069.1	XP_021331277.1	47.727	176	86	1	146	315
2734	NP_001349069.1	XP_021331277.1	46.622	148	73	1	172	313
2735	NP_001349069.1	XP_017211018.1	49.606	254	128	0	60	313

2736	NP_001349069.1	XP_017211018.1	48.134	268	138	1	50	316
2737	NP_001349069.1	XP_017211018.1	46.964	247	127	2	69	315
2738	NP_001349069.1	XP_017211018.1	48.246	228	118	0	58	285
2739	NP_001349069.1	XP_021329613.1	49.071	269	137	0	48	316
2740	NP_001349069.1	XP_021329613.1	50.370	270	133	1	42	310
2741	NP_001349069.1	XP_021329613.1	50.000	268	134	0	48	315
2742	NP_001349069.1	XP_021329613.1	48.881	268	137	0	49	316
2743	NP_001349069.1	XP_021329613.1	46.996	283	150	0	28	310
2744	NP_001349069.1	XP_021329613.1	51.172	256	125	0	58	313
2745	NP_001349069.1	XP_021329613.1	48.828	256	131	0	60	315
2746	NP_001349069.1	XP_021329613.1	48.263	259	134	0	58	316
2747	NP_001349069.1	XP_021329613.1	48.120	266	138	0	50	315
2748	NP_001349069.1	XP_021329613.1	46.595	279	148	1	39	316
2749	NP_001349069.1	XP_021329613.1	47.287	258	136	0	59	316
2750	NP_001349069.1	XP_021329613.1	42.244	303	139	3	50	316
2751	NP_001349069.1	XP_021329613.1	50.000	228	114	0	88	315
2752	NP_001349069.1	XP_021329613.1	47.234	235	124	0	81	315
2753	NP_001349069.1	XP_021329613.1	42.268	97	56	0	49	145
2754	NP_001349069.1	XP_021329613.1	42.500	40	23	0	276	315
2755	NP_001349069.1	XP_017211199.1	54.709	223	101	0	70	292
2756	NP_001349069.1	XP_017211199.1	50.228	219	109	0	97	315
2757	NP_001349069.1	XP_017211199.1	48.387	217	112	0	48	264
2758	NP_001349069.1	XP_009299198.1	47.388	268	141	0	48	315
2759	NP_001349069.1	XP_009299198.1	46.875	256	136	0	56	311
2760	NP_001349069.1	XP_009299198.1	47.410	251	132	0	63	313
2761	NP_001349069.1	XP_009299198.1	43.701	254	143	0	60	313
2762	NP_001349069.1	XP_009299198.1	41.573	267	156	0	48	314
2763	NP_001349069.1	XP_009299198.1	41.799	189	109	1	146	333
2764	NP_001349069.1	XP_009299198.1	43.972	141	79	0	172	312
2765	NP_001349069.1	NP_001107078.1	44.371	302	161	2	18	312
2766	NP_001349069.1	NP_001107078.1	49.378	241	122	0	50	290
2767	NP_001349069.1	NP_001107078.1	48.696	230	118	0	86	315
2768	NP_001349069.1	NP_001107078.1	49.655	145	73	0	175	319
2769	NP_001349069.1	XP_017210948.1	47.212	269	141	1	42	309
2770	NP_001349069.1	XP_017210948.1	52.282	241	114	1	91	330
2771	NP_001349069.1	XP_017210948.1	52.000	225	104	1	58	278
2772	NP_001349069.1	XP_021331497.1	48.106	264	137	0	50	313
2773	NP_001349069.1	XP_021331497.1	47.656	256	133	1	58	313
2774	NP_001349069.1	XP_021331497.1	47.410	251	132	0	63	313
2775	NP_001349069.1	XP_021331497.1	44.403	268	149	0	48	315
2776	NP_001349069.1	XP_021331497.1	43.952	248	139	0	72	319
2777	NP_001349069.1	XP_021331497.1	44.498	209	115	1	50	258
2778	NP_001349069.1	XP_021331497.1	45.161	155	84	1	50	204

2779	NP_001349069.1	XP_021331497.1	40.000	75	44	1	46	120
2780	NP_001349069.1	XP_021331371.1	49.194	248	126	0	58	305
2781	NP_001349069.1	XP_021331371.1	49.206	252	127	1	86	336
2782	NP_001349069.1	XP_021331371.1	50.909	110	54	0	58	167
2783	NP_001349069.1	XP_021329631.1	49.421	259	131	0	58	316
2784	NP_001349069.1	XP_021329631.1	51.092	229	112	0	85	313
2785	NP_001349069.1	XP_021329631.1	47.805	205	107	0	112	316
2786	NP_001349069.1	XP_021329631.1	46.429	84	44	1	251	333
2787	NP_001349069.1	XP_021329631.1	40.000	70	40	1	47	114
2788	NP_001349069.1	XP_017207864.1	45.139	288	157	1	47	333
2789	NP_001349069.1	XP_017207864.1	46.715	274	146	0	46	319
2790	NP_001349069.1	XP_017207864.1	45.926	270	146	0	46	315
2791	NP_001349069.1	XP_017207864.1	45.865	266	144	0	48	313
2792	NP_001349069.1	XP_017207864.1	44.697	264	146	0	50	313
2793	NP_001349069.1	XP_017207864.1	47.674	258	135	0	58	315
2794	NP_001349069.1	XP_017207864.1	44.737	266	141	1	61	320
2795	NP_001349069.1	XP_017207864.1	43.874	253	139	1	58	310
2796	NP_001349069.1	XP_017207864.1	46.186	236	125	1	82	315
2797	NP_001349069.1	XP_017207864.1	42.857	210	118	1	111	318
2798	NP_001349069.1	XP_017207864.1	40.865	208	120	1	47	254
2799	NP_001349069.1	XP_017211167.1	52.191	251	120	0	63	313
2800	NP_001349069.1	XP_017211167.1	47.699	239	125	0	50	288
2801	NP_001349069.1	XP_017211167.1	49.115	226	115	0	88	313
2802	NP_001349069.1	XP_017211167.1	49.500	200	101	0	116	315
2803	NP_001349069.1	XP_017210839.1	47.431	253	133	0	63	315
2804	NP_001349069.1	XP_017210839.1	41.636	269	157	0	48	316
2805	NP_001349069.1	XP_017210839.1	40.467	257	153	0	58	314
2806	NP_001349069.1	XP_017211130.1	47.876	259	134	1	58	315
2807	NP_001349069.1	XP_017211130.1	44.528	265	146	1	48	311
2808	NP_001349069.1	XP_017211130.1	47.222	252	132	1	63	313
2809	NP_001349069.1	XP_017211130.1	41.418	268	156	1	48	314
2810	NP_001349069.1	XP_017211130.1	46.250	240	120	2	83	313
2811	NP_001349069.1	XP_017209852.2	45.907	281	133	1	58	319
2812	NP_001349069.1	XP_017209852.2	45.600	250	136	0	59	308
2813	NP_001349069.1	XP_017209852.2	42.617	298	151	2	56	333
2814	NP_001349069.1	XP_017209852.2	46.718	259	119	1	56	295
2815	NP_001349069.1	XP_017209852.2	43.015	272	136	1	63	315
2816	NP_001349069.1	XP_017209852.2	44.141	256	143	0	60	315
2817	NP_001349069.1	XP_017209852.2	43.701	254	139	1	63	316
2818	NP_001349069.1	XP_017209933.1	50.566	265	129	2	50	313
2819	NP_001349069.1	XP_017209933.1	50.218	229	113	1	58	286
2820	NP_001349069.1	XP_017209933.1	50.340	147	72	1	58	204
2821	NP_001349069.1	XP_021331303.1	49.242	264	133	1	50	312

2822	NP_001349069.1	XP_021331303.1	48.092	262	136	0	58	319
2823	NP_001349069.1	XP_021331303.1	49.115	226	115	0	88	313
2824	NP_001349069.1	XP_021331303.1	47.771	157	81	1	175	330
2825	NP_001349069.1	XP_021331303.1	35.849	106	40	1	58	135
2826	NP_001349069.1	XP_017211103.1	50.379	264	131	0	50	313
2827	NP_001349069.1	XP_017211103.1	48.302	265	136	1	50	313
2828	NP_001349069.1	XP_017211103.1	47.162	229	121	0	58	286
2829	NP_001349069.1	NP_001314951.1	46.980	298	156	2	19	315
2830	NP_001349069.1	NP_001314951.1	51.073	233	114	0	58	290
2831	NP_001349069.1	NP_001314951.1	48.673	226	116	0	91	316
2832	NP_001349069.1	XP_017209955.1	47.809	251	131	0	63	313
2833	NP_001349069.1	XP_017209955.1	44.697	264	146	0	48	311
2834	NP_001349069.1	XP_017209955.1	42.085	259	150	0	58	316
2835	NP_001349069.1	XP_017209955.1	43.411	258	146	0	56	313
2836	NP_001349069.1	XP_017209955.1	42.636	258	140	1	56	313
2837	NP_001349069.1	XP_017209955.1	36.264	91	58	0	56	146
2838	NP_001349069.1	XP_021331309.1	44.483	290	148	2	39	315
2839	NP_001349069.1	XP_021331309.1	42.322	267	154	0	48	314
2840	NP_001349069.1	XP_021331309.1	41.924	291	160	2	31	312
2841	NP_001349069.1	XP_021331309.1	46.018	226	122	0	91	316
2842	NP_001349069.1	XP_017210364.1	47.761	268	140	0	46	313
2843	NP_001349069.1	XP_017210364.1	47.191	267	141	0	50	316
2844	NP_001349069.1	XP_017210364.1	40.000	335	166	3	7	313
2845	NP_001349069.1	XP_017210364.1	48.047	256	133	0	58	313
2846	NP_001349069.1	XP_017210364.1	44.403	268	148	1	50	316
2847	NP_001349069.1	XP_017210364.1	42.105	304	142	2	44	313
2848	NP_001349069.1	XP_017210364.1	44.747	257	142	0	58	314
2849	NP_001349069.1	XP_017210364.1	43.019	265	151	0	49	313
2850	NP_001349069.1	XP_017210364.1	49.153	118	60	0	59	176
2851	NP_001349069.1	XP_021331056.1	48.560	243	125	0	73	315
2852	NP_001349069.1	XP_021331056.1	50.885	226	111	0	58	283
2853	NP_001349069.1	XP_021331056.1	47.253	91	48	0	58	148
2854	NP_001349069.1	XP_021323944.1	46.468	269	144	0	46	314
2855	NP_001349069.1	XP_021323944.1	46.350	274	147	0	46	319
2856	NP_001349069.1	XP_021323944.1	44.030	268	150	0	46	313
2857	NP_001349069.1	XP_021323944.1	45.926	270	146	0	46	315
2858	NP_001349069.1	XP_021323944.1	41.720	314	173	3	29	333
2859	NP_001349069.1	XP_021323944.1	45.703	256	139	0	58	313
2860	NP_001349069.1	XP_021323944.1	44.105	229	128	0	58	286
2861	NP_001349069.1	XP_021323944.1	41.290	155	91	0	48	202
2862	NP_001349069.1	XP_021323944.1	33.333	45	30	0	46	90
2863	NP_001349069.1	XP_017211226.1	48.529	272	139	1	50	320
2864	NP_001349069.1	XP_017211226.1	35.849	106	40	1	58	135

2865	NP_001349069.1	XP_021327009.1	47.388	268	139	2	50	316
2866	NP_001349069.1	XP_021327009.1	46.825	252	133	1	60	311
2867	NP_001349069.1	XP_021327009.1	49.561	228	115	0	56	283
2868	NP_001349069.1	XP_021327008.1	47.388	268	139	2	50	316
2869	NP_001349069.1	XP_021327008.1	46.825	252	133	1	60	311
2870	NP_001349069.1	XP_021327008.1	49.561	228	115	0	56	283
2871	NP_001349069.1	XP_021327007.1	47.388	268	139	2	50	316
2872	NP_001349069.1	XP_021327007.1	46.825	252	133	1	60	311
2873	NP_001349069.1	XP_021327007.1	49.561	228	115	0	56	283
2874	NP_001349069.1	XP_009296573.2	48.031	254	132	0	58	311
2875	NP_001349069.1	XP_009296573.2	48.828	256	131	0	58	313
2876	NP_001349069.1	XP_009296573.2	44.876	283	154	1	33	313
2877	NP_001349069.1	XP_009296573.2	47.266	256	135	0	58	313
2878	NP_001349069.1	XP_009296573.2	46.332	259	139	0	58	316
2879	NP_001349069.1	XP_009296573.2	44.906	265	146	0	49	313
2880	NP_001349069.1	XP_009296573.2	48.819	254	130	0	60	313
2881	NP_001349069.1	XP_009296573.2	45.560	259	141	0	58	316
2882	NP_001349069.1	XP_009296573.2	43.333	270	153	0	49	318
2883	NP_001349069.1	XP_009296573.2	46.078	204	110	0	112	315
2884	NP_001349069.1	XP_009296573.2	50.000	66	33	0	250	315
2885	NP_001349069.1	NP_001104669.1	45.038	262	144	0	50	311
2886	NP_001349069.1	NP_001104669.1	47.826	253	132	0	63	315
2887	NP_001349069.1	NP_001104669.1	45.977	261	141	0	56	316
2888	NP_001349069.1	NP_001104669.1	43.969	257	144	0	58	314
2889	NP_001349069.1	NP_001104669.1	43.721	215	120	1	120	333
2890	NP_001349069.1	XP_017210573.1	45.038	262	144	0	50	311
2891	NP_001349069.1	XP_017210573.1	47.826	253	132	0	63	315
2892	NP_001349069.1	XP_017210573.1	45.977	261	141	0	56	316
2893	NP_001349069.1	XP_017210573.1	43.969	257	144	0	58	314
2894	NP_001349069.1	XP_017210573.1	43.721	215	120	1	120	333
2895	NP_001349069.1	XP_017211129.1	45.455	264	144	0	48	311
2896	NP_001349069.1	XP_017211129.1	47.012	251	133	0	63	313
2897	NP_001349069.1	XP_017211129.1	44.569	267	148	0	50	316
2898	NP_001349069.1	XP_017211129.1	45.882	170	92	0	146	315
2899	NP_001349069.1	XP_017211129.1	47.917	144	75	0	172	315
2900	NP_001349069.1	XP_017211057.1	47.012	251	133	0	63	313
2901	NP_001349069.1	XP_017211057.1	44.318	264	147	0	48	311
2902	NP_001349069.1	XP_017211057.1	43.922	255	143	0	58	312
2903	NP_001349069.1	XP_017211057.1	40.154	259	155	0	58	316
2904	NP_001349069.1	XP_017211057.1	39.437	284	157	2	30	313
2905	NP_001349069.1	XP_017211057.1	40.465	215	126	1	103	315
2906	NP_001349069.1	XP_017210198.1	42.671	307	173	2	12	316
2907	NP_001349069.1	XP_017210198.1	46.360	261	140	0	56	316

2908	NP_001349069.1	XP_017210198.1	43.182	264	150	0	50	313
2909	NP_001349069.1	XP_017210198.1	42.435	271	156	0	46	316
2910	NP_001349069.1	XP_017210198.1	46.025	239	129	0	48	286
2911	NP_001349069.1	XP_021331223.1	49.237	262	133	0	58	319
2912	NP_001349069.1	XP_021331223.1	49.225	258	131	0	58	315
2913	NP_001349069.1	XP_021331223.1	45.296	287	156	1	48	333
2914	NP_001349069.1	XP_021331223.1	51.464	239	116	0	58	296
2915	NP_001349069.1	XP_021331223.1	45.736	258	140	0	58	315
2916	NP_001349069.1	XP_021331223.1	46.586	249	133	0	63	311
2917	NP_001349069.1	XP_021331223.1	47.556	225	118	0	91	315
2918	NP_001349069.1	XP_021331223.1	51.309	191	93	0	58	248
2919	NP_001349069.1	XP_021331223.1	48.214	168	87	0	146	313
2920	NP_001349069.1	XP_021331223.1	45.223	157	78	1	167	315
2921	NP_001349069.1	XP_021331223.1	41.667	132	76	1	203	333
2922	NP_001349069.1	XP_017211015.1	51.394	251	122	0	63	313
2923	NP_001349069.1	XP_017211015.1	47.257	237	125	0	50	286
2924	NP_001349069.1	XP_017211015.1	50.254	197	98	0	119	315
2925	NP_001349069.1	XP_017211015.1	49.375	160	80	1	172	330
2926	NP_001349069.1	XP_017210344.1	47.638	254	133	0	58	311
2927	NP_001349069.1	XP_017210344.1	46.290	283	150	1	33	313
2928	NP_001349069.1	XP_017210344.1	45.946	259	140	0	58	316
2929	NP_001349069.1	XP_017210344.1	47.656	256	134	0	58	313
2930	NP_001349069.1	XP_017210344.1	44.788	259	143	0	58	316
2931	NP_001349069.1	XP_017210344.1	48.954	239	120	1	75	313
2932	NP_001349069.1	XP_017210344.1	44.747	257	142	0	60	316
2933	NP_001349069.1	XP_017210344.1	45.575	226	123	0	58	283
2934	NP_001349069.1	XP_017210344.1	34.940	166	101	1	6	171
2935	NP_001349069.1	XP_017211218.1	51.394	251	122	0	63	313
2936	NP_001349069.1	XP_017211218.1	47.257	237	125	0	50	286
2937	NP_001349069.1	XP_017211218.1	50.254	197	98	0	119	315
2938	NP_001349069.1	XP_017211218.1	49.375	160	80	1	172	330
2939	NP_001349069.1	NP_001014384.1	44.251	287	153	2	33	313
2940	NP_001349069.1	NP_001014384.1	40.625	288	167	3	26	313
2941	NP_001349069.1	NP_001014384.1	44.690	226	123	2	58	282
2942	NP_001349069.1	NP_001014384.1	44.211	95	52	1	49	142
2943	NP_001349069.1	XP_005160995.1	44.251	287	153	2	33	313
2944	NP_001349069.1	XP_005160995.1	40.625	288	167	3	26	313
2945	NP_001349069.1	XP_005160995.1	44.690	226	123	2	58	282
2946	NP_001349069.1	XP_005160995.1	44.211	95	52	1	49	142
2947	NP_001349069.1	XP_017208296.1	50.193	259	129	0	58	316
2948	NP_001349069.1	XP_017208296.1	47.015	268	142	0	46	313
2949	NP_001349069.1	XP_017208296.1	48.828	256	131	0	58	313
2950	NP_001349069.1	XP_017208296.1	45.865	266	144	0	48	313

2951	NP_001349069.1	XP_017208296.1	48.047	256	133	0	58	313
2952	NP_001349069.1	XP_017208296.1	50.638	235	116	0	81	315
2953	NP_001349069.1	XP_017208296.1	48.649	259	133	0	58	316
2954	NP_001349069.1	XP_017208296.1	43.431	274	149	1	44	311
2955	NP_001349069.1	XP_017208296.1	47.656	256	134	0	58	313
2956	NP_001349069.1	XP_017208296.1	45.312	256	140	0	58	313
2957	NP_001349069.1	XP_017208296.1	44.843	223	123	0	91	313
2958	NP_001349069.1	XP_017210349.1	49.624	266	133	1	50	314
2959	NP_001349069.1	XP_017210349.1	44.643	56	31	0	261	316
2960	NP_001349069.1	XP_009298179.1	49.624	266	133	1	50	314
2961	NP_001349069.1	XP_009298179.1	44.643	56	31	0	261	316
2962	NP_001349069.1	XP_009298178.1	49.624	266	133	1	50	314
2963	NP_001349069.1	XP_009298178.1	44.643	56	31	0	261	316
2964	NP_001349069.1	XP_021327153.1	49.624	266	133	1	50	314
2965	NP_001349069.1	XP_021327153.1	44.643	56	31	0	261	316
2966	NP_001349069.1	XP_005170442.1	44.444	270	150	0	46	315
2967	NP_001349069.1	XP_005170442.1	46.886	273	145	0	44	316
2968	NP_001349069.1	XP_005170442.1	41.772	158	91	1	41	198
2969	NP_001349069.1	XP_021331063.1	52.155	232	111	0	82	313
2970	NP_001349069.1	XP_021331063.1	50.215	233	116	0	58	290
2971	NP_001349069.1	XP_021331063.1	51.515	66	32	0	56	121
2972	NP_001349069.1	XP_021327905.1	48.263	259	134	0	58	316
2973	NP_001349069.1	XP_021327905.1	46.642	268	142	1	47	313
2974	NP_001349069.1	XP_021327905.1	45.865	266	144	0	48	313
2975	NP_001349069.1	XP_021327905.1	46.121	232	125	0	58	289
2976	NP_001349069.1	XP_021327905.1	43.038	158	90	0	50	207
2977	NP_001349069.1	XP_017210371.1	48.263	259	134	0	58	316
2978	NP_001349069.1	XP_017210371.1	46.642	268	142	1	47	313
2979	NP_001349069.1	XP_017210371.1	45.865	266	144	0	48	313
2980	NP_001349069.1	XP_017210371.1	46.121	232	125	0	58	289
2981	NP_001349069.1	XP_017210371.1	43.038	158	90	0	50	207
2982	NP_001349069.1	XP_009297802.1	45.660	265	144	0	48	312
2983	NP_001349069.1	XP_009297802.1	47.266	256	135	0	60	315
2984	NP_001349069.1	XP_009297802.1	40.221	271	161	1	64	333
2985	NP_001349069.1	XP_021331500.1	45.126	277	151	1	58	333
2986	NP_001349069.1	XP_021331500.1	43.866	269	151	0	48	316
2987	NP_001349069.1	XP_021331500.1	44.656	262	145	0	58	319
2988	NP_001349069.1	XP_021331500.1	43.165	278	152	1	42	313
2989	NP_001349069.1	XP_021331500.1	45.418	251	137	0	63	313
2990	NP_001349069.1	XP_009301501.1	46.899	258	137	0	58	315
2991	NP_001349069.1	XP_009301501.1	43.321	277	156	1	60	335
2992	NP_001349069.1	XP_009301501.1	43.137	255	144	1	58	311
2993	NP_001349069.1	XP_009301501.1	39.394	330	178	5	19	329

2994	NP_001349069.1	XP_021331255.1	52.074	217	104	0	82	298
2995	NP_001349069.1	XP_021331255.1	50.233	215	107	0	58	272
2996	NP_001349069.1	XP_021331255.1	49.282	209	106	0	111	319
2997	NP_001349069.1	XP_021331255.1	50.649	154	76	0	166	319
2998	NP_001349069.1	XP_021327011.1	50.826	242	114	1	80	316
2999	NP_001349069.1	XP_021327011.1	50.427	234	115	1	63	296
3000	NP_001349069.1	XP_021327011.1	48.598	214	110	0	48	261
3001	NP_001349069.1	XP_021327011.1	48.634	183	93	1	58	240
3002	NP_001349069.1	XP_021327010.1	50.826	242	114	1	80	316
3003	NP_001349069.1	XP_021327010.1	50.427	234	115	1	63	296
3004	NP_001349069.1	XP_021327010.1	48.598	214	110	0	48	261
3005	NP_001349069.1	XP_021327010.1	48.634	183	93	1	58	240
3006	NP_001349069.1	XP_021324489.1	48.828	256	131	0	58	313
3007	NP_001349069.1	XP_021324489.1	45.833	264	143	0	46	309
3008	NP_001349069.1	XP_021324489.1	47.619	273	142	1	58	329
3009	NP_001349069.1	XP_021324489.1	50.427	234	116	0	82	315
3010	NP_001349069.1	XP_021324489.1	41.250	160	88	1	44	197
3011	NP_001349069.1	NP_001025265.3	49.398	249	126	0	63	311
3012	NP_001349069.1	NP_001025265.3	47.170	265	140	0	49	313
3013	NP_001349069.1	NP_001025265.3	47.266	256	135	0	58	313
3014	NP_001349069.1	NP_001025265.3	45.798	238	129	0	49	286
3015	NP_001349069.1	NP_001025265.3	46.606	221	118	0	93	313
3016	NP_001349069.1	NP_001025265.3	50.000	200	100	0	115	314
3017	NP_001349069.1	NP_001025265.3	46.939	98	52	0	48	145
3018	NP_001349069.1	XP_017210838.1	46.215	251	135	0	63	313
3019	NP_001349069.1	XP_017210838.1	43.561	264	149	0	48	311
3020	NP_001349069.1	XP_017210838.1	43.580	257	145	0	58	314
3021	NP_001349069.1	XP_017210838.1	41.313	259	152	0	58	316
3022	NP_001349069.1	XP_017210838.1	42.640	197	113	0	119	315
3023	NP_001349069.1	XP_021330478.1	50.388	258	128	0	58	315
3024	NP_001349069.1	XP_021330478.1	48.031	254	132	0	58	311
3025	NP_001349069.1	XP_021330478.1	48.249	257	133	0	58	314
3026	NP_001349069.1	XP_021330478.1	49.035	259	132	0	58	316
3027	NP_001349069.1	XP_021330478.1	47.656	256	134	0	58	313
3028	NP_001349069.1	XP_021330478.1	44.815	270	149	0	49	318
3029	NP_001349069.1	XP_021330478.1	44.948	287	151	1	34	313
3030	NP_001349069.1	XP_021330478.1	46.875	256	136	0	58	313
3031	NP_001349069.1	XP_021330478.1	43.463	283	153	3	58	333
3032	NP_001349069.1	XP_021330478.1	42.599	277	152	3	43	313
3033	NP_001349069.1	XP_021330478.1	45.532	235	128	0	81	315
3034	NP_001349069.1	XP_021330478.1	46.774	186	98	1	130	315
3035	NP_001349069.1	XP_021330478.1	44.737	152	84	0	50	201
3036	NP_001349069.1	XP_021330478.1	40.426	47	27	1	43	89

3037	NP_001349069.1	XP_021324487.1	48.828	256	131	0	58	313
3038	NP_001349069.1	XP_021324487.1	45.833	264	143	0	46	309
3039	NP_001349069.1	XP_021324487.1	50.638	235	116	0	81	315
3040	NP_001349069.1	XP_021324487.1	47.619	273	142	1	58	329
3041	NP_001349069.1	XP_021324487.1	44.843	223	123	0	91	313
3042	NP_001349069.1	XP_021324487.1	41.250	160	88	1	44	197
3043	NP_001349069.1	NP_001314925.1	47.619	273	141	2	19	290
3044	NP_001349069.1	NP_001314925.1	52.212	226	108	0	88	313
3045	NP_001349069.1	XP_021331298.1	46.899	258	137	0	58	315
3046	NP_001349069.1	XP_021331298.1	46.094	256	138	0	60	315
3047	NP_001349069.1	XP_021331298.1	42.636	258	147	1	58	314
3048	NP_001349069.1	XP_021331298.1	39.697	330	177	5	19	329
3049	NP_001349069.1	XP_021331297.1	46.899	258	137	0	58	315
3050	NP_001349069.1	XP_021331297.1	46.094	256	138	0	60	315
3051	NP_001349069.1	XP_021331297.1	42.636	258	147	1	58	314
3052	NP_001349069.1	XP_021331297.1	39.697	330	177	5	19	329
3053	NP_001349069.1	XP_009299002.1	46.215	251	135	0	63	313
3054	NP_001349069.1	XP_009299002.1	44.318	264	147	0	48	311
3055	NP_001349069.1	XP_009299002.1	44.706	255	141	0	58	312
3056	NP_001349069.1	XP_009299002.1	40.541	259	154	0	58	316
3057	NP_001349069.1	XP_009299002.1	41.624	197	115	0	119	315
3058	NP_001349069.1	XP_009299002.1	42.857	168	96	0	146	313
3059	NP_001349069.1	XP_009299002.1	47.887	142	74	0	172	313
3060	NP_001349069.1	NP_001116099.1	49.402	251	127	0	63	313
3061	NP_001349069.1	NP_001116099.1	49.785	233	117	0	58	290
3062	NP_001349069.1	NP_001116099.1	47.368	114	60	0	203	316
3063	NP_001349069.1	XP_017210218.1	47.170	265	140	0	49	313
3064	NP_001349069.1	XP_017210218.1	45.703	256	139	0	58	313
3065	NP_001349069.1	XP_017210218.1	46.875	256	136	0	58	313
3066	NP_001349069.1	XP_017210218.1	45.914	257	139	0	58	314
3067	NP_001349069.1	XP_017210218.1	42.697	267	153	0	48	314
3068	NP_001349069.1	XP_017210218.1	42.697	267	153	0	47	313
3069	NP_001349069.1	XP_017210218.1	40.411	292	146	1	50	313
3070	NP_001349069.1	XP_017210218.1	41.573	267	156	0	50	316
3071	NP_001349069.1	XP_017210218.1	42.322	267	154	0	50	316
3072	NP_001349069.1	XP_017210218.1	43.580	257	141	1	60	316
3073	NP_001349069.1	XP_017210218.1	40.927	259	153	0	58	316
3074	NP_001349069.1	XP_017210218.1	41.327	196	115	0	58	253
3075	NP_001349069.1	XP_017210218.1	34.848	66	43	0	58	123
3076	NP_001349069.1	XP_021331372.1	50.206	243	120	1	68	309
3077	NP_001349069.1	XP_021331372.1	52.727	220	104	0	58	277
3078	NP_001349069.1	XP_021331372.1	51.598	219	106	0	95	313
3079	NP_001349069.1	XP_021331372.1	51.818	110	53	0	58	167

3080	NP_001349069.1	XP_021331372.1	55.172	29	12	1	58	85
3081	NP_001349069.1	XP_021330856.1	47.510	261	136	1	50	309
3082	NP_001349069.1	XP_021330856.1	47.131	244	125	1	70	313
3083	NP_001349069.1	XP_021330856.1	32.597	181	89	2	166	313
3084	NP_001349069.1	XP_021330856.1	49.123	57	29	0	259	315
3085	NP_001349069.1	NP_001103336.1	46.512	258	138	0	56	313
3086	NP_001349069.1	NP_001103336.1	45.489	266	145	0	48	313
3087	NP_001349069.1	NP_001103336.1	45.560	259	140	1	56	313
3088	NP_001349069.1	NP_001103336.1	46.610	236	126	0	50	285
3089	NP_001349069.1	NP_001103336.1	43.671	158	89	0	47	204
3090	NP_001349069.1	XP_021331300.1	46.124	258	139	0	58	315
3091	NP_001349069.1	XP_021331300.1	44.922	256	141	0	60	315
3092	NP_001349069.1	XP_021331300.1	42.353	255	146	1	58	311
3093	NP_001349069.1	XP_021331300.1	43.820	267	146	2	67	329
3094	NP_001349069.1	XP_021325042.1	48.339	271	140	0	44	314
3095	NP_001349069.1	XP_021325042.1	44.747	257	142	0	58	314
3096	NP_001349069.1	XP_021325042.1	40.264	303	135	3	58	314
3097	NP_001349069.1	XP_021325042.1	38.411	302	140	3	61	316
3098	NP_001349069.1	XP_021325042.1	43.169	183	104	0	50	232
3099	NP_001349069.1	XP_021325042.1	42.581	155	89	0	49	203
3100	NP_001349069.1	XP_021325042.1	33.191	235	121	4	142	342
3101	NP_001349069.1	NP_001107943.1	48.438	256	132	0	58	313
3102	NP_001349069.1	NP_001107943.1	45.833	264	143	0	46	309
3103	NP_001349069.1	NP_001107943.1	50.638	235	116	0	81	315
3104	NP_001349069.1	NP_001107943.1	47.253	273	143	1	58	329
3105	NP_001349069.1	NP_001107943.1	44.843	223	123	0	91	313
3106	NP_001349069.1	NP_001107943.1	40.625	160	89	1	44	197
3107	NP_001349069.1	XP_017210947.1	47.212	269	141	1	42	309
3108	NP_001349069.1	XP_017210947.1	51.111	225	106	1	58	278
3109	NP_001349069.1	XP_017210947.1	48.963	241	122	1	91	330
3110	NP_001349069.1	XP_021331137.1	45.318	267	145	1	50	315
3111	NP_001349069.1	NP_001121721.2	44.195	267	149	0	50	316
3112	NP_001349069.1	NP_001121721.2	44.747	257	142	0	58	314
3113	NP_001349069.1	NP_001121721.2	38.730	315	171	2	19	311
3114	NP_001349069.1	NP_001121721.2	36.842	152	96	0	50	201
3115	NP_001349069.1	XP_021328589.1	43.182	308	168	1	6	313
3116	NP_001349069.1	XP_021328589.1	48.134	268	139	0	46	313
3117	NP_001349069.1	XP_021328589.1	47.170	265	140	0	50	314
3118	NP_001349069.1	XP_021328589.1	48.828	256	131	0	58	313
3119	NP_001349069.1	XP_021328589.1	47.794	272	141	1	43	314
3120	NP_001349069.1	XP_021328589.1	46.642	268	143	0	49	316
3121	NP_001349069.1	XP_021328589.1	47.727	264	138	0	50	313
3122	NP_001349069.1	XP_021328589.1	47.925	265	138	0	49	313

3123	NP_001349069.1	XP_021328589.1	46.970	264	140	0	50	313
3124	NP_001349069.1	XP_021328589.1	48.819	254	130	0	63	316
3125	NP_001349069.1	XP_021328589.1	47.755	245	126	1	46	288
3126	NP_001349069.1	XP_021328589.1	44.667	150	83	0	58	207
3127	NP_001349069.1	XP_021328589.1	45.070	71	39	0	58	128
3128	NP_001349069.1	XP_017210982.1	44.882	254	140	0	58	311
3129	NP_001349069.1	XP_017210982.1	47.012	251	133	0	63	313
3130	NP_001349069.1	XP_017210982.1	44.922	256	141	0	60	315
3131	NP_001349069.1	XP_017210982.1	45.455	253	138	0	58	310
3132	NP_001349069.1	XP_017210982.1	41.569	255	149	0	58	312
3133	NP_001349069.1	XP_017210982.1	43.529	170	96	0	146	315
3134	NP_001349069.1	XP_017210982.1	45.070	142	78	0	172	313
3135	NP_001349069.1	XP_021324420.1	41.993	281	163	0	29	309
3136	NP_001349069.1	XP_021324420.1	46.429	224	120	0	90	313
3137	NP_001349069.1	XP_021324420.1	45.366	205	112	0	111	315
3138	NP_001349069.1	XP_009299025.2	45.490	255	138	1	60	314
3139	NP_001349069.1	XP_009299025.2	41.912	272	158	0	63	334
3140	NP_001349069.1	XP_009299025.2	43.860	228	127	1	58	285
3141	NP_001349069.1	XP_009299025.2	45.238	168	92	0	146	313
3142	NP_001349069.1	XP_017210837.1	45.736	258	140	0	58	315
3143	NP_001349069.1	XP_017210837.1	41.877	277	160	1	58	333
3144	NP_001349069.1	XP_017210837.1	45.817	251	136	0	63	313
3145	NP_001349069.1	XP_017210837.1	43.701	254	143	0	58	311
3146	NP_001349069.1	XP_017210837.1	45.740	223	121	0	93	315
3147	NP_001349069.1	XP_017210837.1	40.784	255	151	0	60	314
3148	NP_001349069.1	XP_017210837.1	40.789	228	135	0	58	285
3149	NP_001349069.1	XP_017210837.1	42.523	214	122	1	121	333
3150	NP_001349069.1	XP_017210014.1	45.490	255	138	1	60	314
3151	NP_001349069.1	XP_017210014.1	41.912	272	158	0	63	334
3152	NP_001349069.1	XP_017210014.1	39.643	280	161	2	6	285
3153	NP_001349069.1	XP_017210014.1	45.238	168	92	0	146	313
3154	NP_001349069.1	XP_021328707.1	48.485	264	136	0	50	313
3155	NP_001349069.1	XP_021328707.1	44.257	296	137	1	49	316
3156	NP_001349069.1	XP_021328707.1	45.588	272	147	1	43	314
3157	NP_001349069.1	XP_021328707.1	45.614	285	154	1	50	333
3158	NP_001349069.1	XP_021328707.1	46.816	267	142	0	47	313
3159	NP_001349069.1	XP_021328707.1	44.776	268	148	0	49	316
3160	NP_001349069.1	XP_021328707.1	46.792	265	141	0	49	313
3161	NP_001349069.1	XP_021328707.1	45.833	264	143	0	50	313
3162	NP_001349069.1	XP_021328707.1	45.896	268	145	0	46	313
3163	NP_001349069.1	XP_021328707.1	48.117	239	124	0	76	314
3164	NP_001349069.1	XP_021328707.1	43.983	241	135	0	58	298
3165	NP_001349069.1	XP_021328707.1	42.188	256	146	1	33	286

3166	NP_001349069.1	NP_001353349.1	46.591	264	140	1	50	312
3167	NP_001349069.1	NP_001353349.1	47.598	229	120	0	58	286
3168	NP_001349069.1	NP_001353349.1	45.492	244	129	2	70	313
3169	NP_001349069.1	NP_001353349.1	44.828	58	32	0	259	316
3170	NP_001349069.1	NP_001353349.1	46.341	41	22	0	50	90
3171	NP_001349069.1	XP_017211097.1	45.882	255	137	1	60	314
3172	NP_001349069.1	XP_017211097.1	41.912	272	158	0	63	334
3173	NP_001349069.1	XP_017211097.1	44.298	228	126	1	58	285
3174	NP_001349069.1	XP_017211097.1	45.238	168	92	0	146	313
3175	NP_001349069.1	XP_021332639.1	45.914	257	138	1	58	314
3176	NP_001349069.1	XP_021332639.1	46.473	241	123	4	78	316
3177	NP_001349069.1	XP_021332639.1	39.552	134	73	4	189	319
3178	NP_001349069.1	XP_021332639.1	40.476	42	25	0	48	89
3179	NP_001349069.1	XP_017210985.1	46.988	249	132	0	63	311
3180	NP_001349069.1	XP_017210985.1	43.191	257	146	0	60	316
3181	NP_001349069.1	XP_017210985.1	48.000	225	117	0	91	315
3182	NP_001349069.1	XP_017210985.1	40.449	267	159	0	48	314
3183	NP_001349069.1	XP_021327368.1	46.816	267	141	1	46	311
3184	NP_001349069.1	XP_021327368.1	45.113	266	146	0	48	313
3185	NP_001349069.1	XP_021327368.1	45.249	221	121	0	93	313
3186	NP_001349069.1	XP_021327368.1	50.251	199	99	0	116	314
3187	NP_001349069.1	XP_021327368.1	37.209	43	27	0	47	89
3188	NP_001349069.1	XP_021332373.1	46.816	267	141	1	46	311
3189	NP_001349069.1	XP_021332373.1	45.113	266	146	0	48	313
3190	NP_001349069.1	XP_021332373.1	45.249	221	121	0	93	313
3191	NP_001349069.1	XP_021332373.1	50.251	199	99	0	116	314
3192	NP_001349069.1	XP_021332373.1	37.209	43	27	0	47	89
3193	NP_001349069.1	XP_021330826.1	50.400	250	122	2	60	309
3194	NP_001349069.1	XP_021330826.1	50.215	233	115	1	49	281
3195	NP_001349069.1	XP_021330826.1	50.218	229	113	1	88	316
3196	NP_001349069.1	XP_021330826.1	45.390	141	76	1	29	169
3197	NP_001349069.1	XP_021324998.1	47.037	270	143	0	47	316
3198	NP_001349069.1	XP_021324998.1	48.450	258	133	0	56	313
3199	NP_001349069.1	XP_021324998.1	42.806	278	152	2	58	335
3200	NP_001349069.1	XP_021324998.1	44.402	259	144	0	58	316
3201	NP_001349069.1	XP_021324998.1	41.958	286	165	1	31	316
3202	NP_001349069.1	XP_021324998.1	45.865	133	71	1	43	175
3203	NP_001349069.1	XP_009301296.1	49.219	256	130	0	58	313
3204	NP_001349069.1	XP_009301296.1	47.266	256	135	0	58	313
3205	NP_001349069.1	XP_009301296.1	43.774	265	149	0	49	313
3206	NP_001349069.1	XP_009301296.1	45.992	237	128	0	50	286
3207	NP_001349069.1	XP_009301296.1	42.292	253	146	0	61	313
3208	NP_001349069.1	XP_009301296.1	44.601	213	118	0	46	258

3209	NP_001349069.1	XP_009301296.1	48.387	31	16	0	283	313
3210	NP_001349069.1	XP_021331432.1	46.800	250	133	0	63	312
3211	NP_001349069.1	XP_021331432.1	45.374	227	124	0	58	284
3212	NP_001349069.1	XP_021331432.1	43.111	225	128	0	91	315
3213	NP_001349069.1	XP_021331432.1	43.284	201	114	0	119	319
3214	NP_001349069.1	XP_009301295.1	49.219	256	130	0	58	313
3215	NP_001349069.1	XP_009301295.1	47.266	256	135	0	58	313
3216	NP_001349069.1	XP_009301295.1	43.774	265	149	0	49	313
3217	NP_001349069.1	XP_009301295.1	45.992	237	128	0	50	286
3218	NP_001349069.1	XP_009301295.1	42.292	253	146	0	61	313
3219	NP_001349069.1	XP_009301295.1	44.601	213	118	0	46	258
3220	NP_001349069.1	XP_009301295.1	48.387	31	16	0	283	313
3221	NP_001349069.1	XP_021330818.1	47.471	257	135	0	59	315
3222	NP_001349069.1	XP_021330818.1	44.815	270	149	0	46	315
3223	NP_001349069.1	XP_021330818.1	46.899	258	137	0	58	315
3224	NP_001349069.1	XP_021330818.1	45.489	266	145	0	48	313
3225	NP_001349069.1	XP_021330818.1	41.000	100	59	0	46	145
3226	NP_001349069.1	XP_021330818.1	37.607	117	58	4	220	333
3227	NP_001349069.1	XP_017209967.1	47.431	253	133	0	63	315
3228	NP_001349069.1	XP_017209967.1	42.751	269	154	0	48	316
3229	NP_001349069.1	XP_017209967.1	45.914	257	139	0	56	312
3230	NP_001349069.1	XP_017209967.1	45.238	252	138	0	60	311
3231	NP_001349069.1	XP_017209967.1	43.529	170	96	0	146	315
3232	NP_001349069.1	XP_017209967.1	44.366	142	79	0	172	313
3233	NP_001349069.1	XP_017209967.1	38.202	89	55	0	58	146
3234	NP_001349069.1	XP_021331130.1	44.358	257	143	0	60	316
3235	NP_001349069.1	XP_021331130.1	46.586	249	133	0	63	311
3236	NP_001349069.1	XP_021331130.1	43.071	267	152	0	48	314
3237	NP_001349069.1	XP_021331130.1	47.111	225	119	0	91	315
3238	NP_001349069.1	XP_021331130.1	42.424	132	75	1	203	333
3239	NP_001349069.1	NP_001107903.1	39.748	317	166	3	19	313
3240	NP_001349069.1	NP_001107903.1	44.404	277	153	1	60	335
3241	NP_001349069.1	NP_001107903.1	40.860	279	164	1	56	333
3242	NP_001349069.1	NP_001107903.1	43.359	256	145	0	56	311
3243	NP_001349069.1	NP_001107903.1	42.391	276	153	1	45	314
3244	NP_001349069.1	NP_001107903.1	44.286	210	116	1	121	329
3245	NP_001349069.1	XP_021323165.1	44.906	265	146	0	49	313
3246	NP_001349069.1	XP_021323165.1	48.193	249	129	0	65	313
3247	NP_001349069.1	XP_021323165.1	48.438	192	99	0	120	311
3248	NP_001349069.1	XP_021323165.1	69.231	26	8	0	288	313
3249	NP_001349069.1	XP_021331235.1	45.490	255	138	1	60	314
3250	NP_001349069.1	XP_021331235.1	41.912	272	158	0	63	334
3251	NP_001349069.1	XP_021331235.1	43.860	228	127	1	58	285

3252	NP_001349069.1	XP_021331235.1	45.238	168	92	0	146	313
3253	NP_001349069.1	XP_017211118.1	45.490	255	138	1	60	314
3254	NP_001349069.1	XP_017211118.1	41.912	272	158	0	63	334
3255	NP_001349069.1	XP_017211118.1	43.860	228	127	1	58	285
3256	NP_001349069.1	XP_017211118.1	45.238	168	92	0	146	313
3257	NP_001349069.1	XP_001923592.1	46.617	266	142	0	48	313
3258	NP_001349069.1	XP_001923592.1	44.223	251	140	0	65	315
3259	NP_001349069.1	XP_001923592.1	50.000	108	54	0	204	311
3260	NP_001349069.1	XP_001923592.1	43.902	82	46	0	232	313
3261	NP_001349069.1	XP_021330457.1	49.213	254	129	0	58	311
3262	NP_001349069.1	XP_021330457.1	42.857	287	136	1	58	316
3263	NP_001349069.1	XP_021330457.1	48.101	237	123	0	82	318
3264	NP_001349069.1	XP_021330457.1	43.243	296	140	1	46	313
3265	NP_001349069.1	XP_021330457.1	51.042	96	47	0	224	319
3266	NP_001349069.1	XP_021330456.1	49.213	254	129	0	58	311
3267	NP_001349069.1	XP_021330456.1	42.857	287	136	1	58	316
3268	NP_001349069.1	XP_021330456.1	48.101	237	123	0	82	318
3269	NP_001349069.1	XP_021330456.1	43.243	296	140	1	46	313
3270	NP_001349069.1	XP_021330456.1	51.042	96	47	0	224	319
3271	NP_001349069.1	XP_021327230.1	42.857	266	152	0	48	313
3272	NP_001349069.1	XP_021327230.1	40.067	297	175	1	19	315
3273	NP_001349069.1	XP_021327230.1	46.414	237	127	0	83	319
3274	NP_001349069.1	XP_021327230.1	48.309	207	107	0	110	316
3275	NP_001349069.1	XP_017211312.1	42.857	266	152	0	48	313
3276	NP_001349069.1	XP_017211312.1	40.067	297	175	1	19	315
3277	NP_001349069.1	XP_017211312.1	46.414	237	127	0	83	319
3278	NP_001349069.1	XP_017211312.1	48.309	207	107	0	110	316
3279	NP_001349069.1	XP_021331487.1	42.857	266	152	0	48	313
3280	NP_001349069.1	XP_021331487.1	40.067	297	175	1	19	315
3281	NP_001349069.1	XP_021331487.1	46.414	237	127	0	83	319
3282	NP_001349069.1	XP_021331487.1	48.309	207	107	0	110	316
3283	NP_001349069.1	XP_021331486.1	42.857	266	152	0	48	313
3284	NP_001349069.1	XP_021331486.1	40.067	297	175	1	19	315
3285	NP_001349069.1	XP_021331486.1	46.414	237	127	0	83	319
3286	NP_001349069.1	XP_021331486.1	48.309	207	107	0	110	316
3287	NP_001349069.1	XP_021330824.1	42.751	269	154	0	48	316
3288	NP_001349069.1	XP_021330824.1	47.431	253	133	0	63	315
3289	NP_001349069.1	XP_021330824.1	44.747	257	142	0	58	314
3290	NP_001349069.1	XP_021330824.1	46.032	252	136	0	60	311
3291	NP_001349069.1	XP_021330824.1	45.294	170	93	0	146	315
3292	NP_001349069.1	XP_021330824.1	39.773	176	97	2	167	333
3293	NP_001349069.1	XP_021323166.1	44.906	265	146	0	49	313
3294	NP_001349069.1	XP_021323166.1	48.193	249	129	0	65	313

3295	NP_001349069.1	XP_021323166.1	48.438	192	99	0	120	311
3296	NP_001349069.1	XP_021323166.1	69.231	26	8	0	288	313
3297	NP_001349069.1	XP_009294085.1	41.722	302	170	1	20	315
3298	NP_001349069.1	XP_009294085.1	47.619	63	33	0	254	316
3299	NP_001349069.1	XP_009297245.1	46.899	258	137	0	59	316
3300	NP_001349069.1	XP_009297245.1	47.104	259	137	0	58	316
3301	NP_001349069.1	XP_009297245.1	42.164	268	154	1	50	316
3302	NP_001349069.1	XP_009297245.1	46.352	233	125	0	50	282
3303	NP_001349069.1	XP_009297245.1	42.308	156	89	1	43	198
3304	NP_001349069.1	XP_009294086.1	41.722	302	170	1	20	315
3305	NP_001349069.1	XP_009294086.1	47.619	63	33	0	254	316
3306	NP_001349069.1	XP_021331498.1	43.902	287	160	1	48	333
3307	NP_001349069.1	XP_021331498.1	46.923	260	138	0	56	315
3308	NP_001349069.1	XP_021331498.1	44.528	265	147	0	49	313
3309	NP_001349069.1	XP_021331498.1	47.388	268	141	0	46	313
3310	NP_001349069.1	XP_021331498.1	44.238	269	150	0	48	316
3311	NP_001349069.1	XP_021331498.1	46.241	266	143	0	48	313
3312	NP_001349069.1	XP_021331498.1	45.896	268	145	0	48	315
3313	NP_001349069.1	XP_021331498.1	44.318	264	147	0	50	313
3314	NP_001349069.1	XP_021331498.1	43.985	266	149	0	48	313
3315	NP_001349069.1	XP_021331498.1	42.434	304	165	3	45	338
3316	NP_001349069.1	XP_021331498.1	44.361	266	148	0	48	313
3317	NP_001349069.1	XP_021331498.1	45.113	266	146	0	48	313
3318	NP_001349069.1	XP_021331498.1	44.487	263	146	0	48	310
3319	NP_001349069.1	XP_021331498.1	43.609	266	150	0	48	313
3320	NP_001349069.1	XP_021331498.1	45.703	256	139	0	58	313
3321	NP_001349069.1	XP_021331498.1	47.266	256	135	0	58	313
3322	NP_001349069.1	XP_021331498.1	46.591	264	141	0	50	313
3323	NP_001349069.1	XP_021331498.1	44.737	266	147	0	48	313
3324	NP_001349069.1	XP_021331498.1	47.244	254	134	0	60	313
3325	NP_001349069.1	XP_021331498.1	42.244	303	162	3	44	333
3326	NP_001349069.1	XP_021331498.1	45.076	264	145	0	48	311
3327	NP_001349069.1	XP_021331498.1	45.417	240	130	1	49	288
3328	NP_001349069.1	XP_017211078.1	46.988	249	132	0	63	311
3329	NP_001349069.1	XP_017211078.1	42.802	257	147	0	60	316
3330	NP_001349069.1	XP_017211078.1	48.444	225	116	0	91	315
3331	NP_001349069.1	XP_017211078.1	40.755	265	157	0	48	312
3332	NP_001349069.1	XP_017211078.1	45.833	168	91	0	146	313
3333	NP_001349069.1	XP_017211078.1	40.764	157	85	1	167	315
3334	NP_001349069.1	XP_017211078.1	37.079	89	56	0	58	146
3335	NP_001349069.1	XP_017209821.1	45.490	255	138	1	60	314
3336	NP_001349069.1	XP_017209821.1	41.912	272	158	0	63	334
3337	NP_001349069.1	XP_017209821.1	44.298	228	126	1	58	285

3338	NP_001349069.1	XP_017209821.1	45.238	168	92	0	146	313
3339	NP_001349069.1	XP_017209820.1	45.490	255	138	1	60	314
3340	NP_001349069.1	XP_017209820.1	41.912	272	158	0	63	334
3341	NP_001349069.1	XP_017209820.1	44.298	228	126	1	58	285
3342	NP_001349069.1	XP_017209820.1	45.238	168	92	0	146	313
3343	NP_001349069.1	NP_001314833.1	42.574	303	172	1	11	313
3344	NP_001349069.1	NP_001314833.1	45.914	257	138	1	58	313
3345	NP_001349069.1	NP_001314833.1	45.600	250	135	1	58	306
3346	NP_001349069.1	NP_001314833.1	39.556	225	107	1	58	253
3347	NP_001349069.1	NP_001314833.1	48.837	129	66	0	188	316
3348	NP_001349069.1	NP_001314833.1	31.884	69	46	1	43	110
3349	NP_001349069.1	XP_017208888.1	44.574	258	143	0	58	315
3350	NP_001349069.1	XP_017208888.1	45.703	256	139	0	58	313
3351	NP_001349069.1	XP_017208888.1	44.922	256	141	0	58	313
3352	NP_001349069.1	XP_017208888.1	42.910	268	153	0	46	313
3353	NP_001349069.1	XP_017208888.1	40.580	276	156	2	38	313
3354	NP_001349069.1	XP_017208888.1	41.597	238	139	0	50	287
3355	NP_001349069.1	XP_017208888.1	40.000	175	105	0	58	232
3356	NP_001349069.1	XP_017208888.1	44.954	109	59	1	208	316
3357	NP_001349069.1	XP_017208888.1	44.444	99	55	0	49	147
3358	NP_001349069.1	XP_021331385.1	44.358	257	143	0	60	316
3359	NP_001349069.1	XP_021331385.1	46.185	249	134	0	63	311
3360	NP_001349069.1	XP_021331385.1	43.071	267	152	0	48	314
3361	NP_001349069.1	XP_021331385.1	47.111	225	119	0	91	315
3362	NP_001349069.1	XP_021331385.1	47.619	168	88	0	146	313
3363	NP_001349069.1	XP_021331385.1	45.223	157	78	1	167	315
3364	NP_001349069.1	XP_021331385.1	41.667	132	76	1	203	333
3365	NP_001349069.1	XP_017209848.1	45.736	258	140	0	58	315
3366	NP_001349069.1	XP_017209848.1	44.882	254	140	0	58	311
3367	NP_001349069.1	XP_017209848.1	44.223	251	140	0	63	313
3368	NP_001349069.1	XP_017209848.1	43.969	257	144	0	60	316
3369	NP_001349069.1	XP_017209848.1	40.467	257	153	0	58	314
3370	NP_001349069.1	XP_017209848.1	43.719	199	112	0	121	319
3371	NP_001349069.1	XP_017208612.1	43.911	271	152	0	46	316
3372	NP_001349069.1	XP_017208612.1	39.936	313	173	2	19	316
3373	NP_001349069.1	XP_017208612.1	45.660	265	144	0	49	313
3374	NP_001349069.1	XP_017208612.1	42.798	243	135	1	45	287
3375	NP_001349069.1	XP_017208611.1	43.911	271	152	0	46	316
3376	NP_001349069.1	XP_017208611.1	39.936	313	173	2	19	316
3377	NP_001349069.1	XP_017208611.1	45.660	265	144	0	49	313
3378	NP_001349069.1	XP_017208611.1	42.798	243	135	1	45	287
3379	NP_001349069.1	XP_017210830.1	42.751	269	154	0	48	316
3380	NP_001349069.1	XP_017210830.1	47.036	253	134	0	63	315

3381	NP_001349069.1	XP_017210830.1	45.525	257	140	0	56	312
3382	NP_001349069.1	XP_017210830.1	45.635	252	137	0	60	311
3383	NP_001349069.1	XP_017210830.1	42.941	170	97	0	146	315
3384	NP_001349069.1	XP_017210830.1	43.662	142	80	0	172	313
3385	NP_001349069.1	XP_017210830.1	38.202	89	55	0	58	146
3386	NP_001349069.1	XP_017210895.1	45.349	258	141	0	58	315
3387	NP_001349069.1	XP_017210895.1	42.960	277	157	1	58	333
3388	NP_001349069.1	XP_017210895.1	45.817	251	136	0	63	313
3389	NP_001349069.1	XP_017210895.1	44.664	253	140	0	58	310
3390	NP_001349069.1	XP_017210895.1	40.392	255	152	0	60	314
3391	NP_001349069.1	XP_017210895.1	41.228	228	134	0	58	285
3392	NP_001349069.1	XP_017210895.1	40.083	242	116	3	121	333
3393	NP_001349069.1	XP_017210895.1	37.079	89	56	0	58	146
3394	NP_001349069.1	XP_017211131.1	46.586	249	133	0	63	311
3395	NP_001349069.1	XP_017211131.1	48.548	241	116	1	83	315
3396	NP_001349069.1	XP_017211131.1	40.449	267	159	0	48	314
3397	NP_001349069.1	XP_017211187.1	46.988	249	132	0	63	311
3398	NP_001349069.1	XP_017211187.1	40.226	266	159	0	48	313
3399	NP_001349069.1	XP_017211187.1	48.000	225	117	0	91	315
3400	NP_001349069.1	XP_017211187.1	42.262	168	97	0	146	313
3401	NP_001349069.1	XP_017211187.1	43.750	144	81	0	172	315
3402	NP_001349069.1	XP_017211187.1	35.955	89	57	0	58	146
3403	NP_001349069.1	XP_005158995.1	45.149	268	147	0	46	313
3404	NP_001349069.1	XP_005158995.1	44.444	252	140	0	65	316
3405	NP_001349069.1	XP_005158995.1	45.178	197	108	0	120	316
3406	NP_001349069.1	XP_005158995.1	42.636	129	73	1	43	171
3407	NP_001349069.1	XP_005158995.1	42.857	70	40	0	48	117
3408	NP_001349069.1	XP_021331152.1	45.276	254	139	0	63	316
3409	NP_001349069.1	XP_021331152.1	39.496	238	144	0	48	285
3410	NP_001349069.1	XP_021331152.1	48.214	168	87	0	146	313
3411	NP_001349069.1	XP_021331152.1	47.887	142	74	0	172	313
3412	NP_001349069.1	XP_021326627.1	47.191	267	141	0	47	313
3413	NP_001349069.1	XP_021326627.1	46.212	264	142	0	50	313
3414	NP_001349069.1	XP_021326627.1	46.494	271	144	1	46	316
3415	NP_001349069.1	XP_021326627.1	45.522	268	146	0	46	313
3416	NP_001349069.1	XP_021326627.1	48.221	253	131	0	61	313
3417	NP_001349069.1	XP_021326627.1	44.238	269	150	0	48	316
3418	NP_001349069.1	XP_021326627.1	45.455	264	144	0	50	313
3419	NP_001349069.1	XP_021326627.1	45.076	264	145	0	50	313
3420	NP_001349069.1	XP_021326627.1	43.411	258	146	0	56	313
3421	NP_001349069.1	XP_021326627.1	43.123	269	153	0	48	316
3422	NP_001349069.1	XP_021326627.1	42.910	268	153	0	49	316
3423	NP_001349069.1	XP_021326627.1	40.860	279	161	2	39	316

3424	NP_001349069.1	XP_021326627.1	45.492	244	132	1	43	286
3425	NP_001349069.1	XP_017211163.1	46.586	249	133	0	63	311
3426	NP_001349069.1	XP_017211163.1	40.449	267	159	0	48	314
3427	NP_001349069.1	XP_017211163.1	47.111	225	119	0	91	315
3428	NP_001349069.1	XP_017211163.1	41.634	257	150	0	60	316
3429	NP_001349069.1	XP_017211163.1	45.882	170	92	0	146	315
3430	NP_001349069.1	XP_017211163.1	41.718	163	94	1	172	333
3431	NP_001349069.1	XP_017210984.1	42.379	269	155	0	48	316
3432	NP_001349069.1	XP_017210984.1	47.036	253	134	0	63	315
3433	NP_001349069.1	XP_017210984.1	44.358	257	143	0	58	314
3434	NP_001349069.1	XP_017210984.1	45.238	252	138	0	60	311
3435	NP_001349069.1	XP_017210984.1	45.294	170	93	0	146	315
3436	NP_001349069.1	XP_017210984.1	39.773	176	97	2	167	333
3437	NP_001349069.1	XP_021325149.1	43.478	276	156	0	37	312
3438	NP_001349069.1	XP_021325149.1	41.880	234	136	0	83	316
3439	NP_001349069.1	XP_021325149.1	46.392	97	52	0	50	146
3440	NP_001349069.1	XP_021331388.1	45.098	255	139	1	60	314
3441	NP_001349069.1	XP_021331388.1	42.279	272	157	0	63	334
3442	NP_001349069.1	XP_021331388.1	43.860	228	127	1	58	285
3443	NP_001349069.1	XP_021331388.1	45.238	168	92	0	146	313
3444	NP_001349069.1	XP_017211249.1	45.098	255	139	1	60	314
3445	NP_001349069.1	XP_017211249.1	42.279	272	157	0	63	334
3446	NP_001349069.1	XP_017211249.1	43.860	228	127	1	58	285
3447	NP_001349069.1	XP_017211249.1	45.238	168	92	0	146	313
3448	NP_001349069.1	XP_009301308.1	46.792	265	141	0	49	313
3449	NP_001349069.1	XP_009301308.1	46.512	258	138	0	59	316
3450	NP_001349069.1	XP_009301308.1	44.262	183	102	0	48	230
3451	NP_001349069.1	XP_003201690.2	46.792	265	141	0	49	313
3452	NP_001349069.1	XP_003201690.2	46.512	258	138	0	59	316
3453	NP_001349069.1	XP_003201690.2	44.262	183	102	0	48	230
3454	NP_001349069.1	XP_021324971.1	46.043	278	142	1	57	326
3455	NP_001349069.1	XP_021324971.1	41.700	247	136	1	49	287
3456	NP_001349069.1	XP_021324971.1	43.871	155	87	0	47	201
3457	NP_001349069.1	XP_021324970.1	46.043	278	142	1	57	326
3458	NP_001349069.1	XP_021324970.1	41.700	247	136	1	49	287
3459	NP_001349069.1	XP_021324970.1	43.871	155	87	0	47	201
3460	NP_001349069.1	XP_017210690.1	47.036	253	134	0	63	315
3461	NP_001349069.1	XP_017210690.1	42.379	269	155	0	48	316
3462	NP_001349069.1	XP_017210690.1	44.015	259	145	0	56	314
3463	NP_001349069.1	XP_017210690.1	45.635	252	137	0	60	311
3464	NP_001349069.1	XP_017210690.1	44.706	170	94	0	146	315
3465	NP_001349069.1	XP_017210690.1	40.491	163	96	1	172	333
3466	NP_001349069.1	XP_017210343.1	43.972	282	130	1	58	311

3467	NP_001349069.1	XP_017210343.1	45.882	255	138	0	59	313
3468	NP_001349069.1	XP_017210343.1	46.484	256	137	0	58	313
3469	NP_001349069.1	XP_017210343.1	47.244	254	134	0	60	313
3470	NP_001349069.1	XP_017210343.1	45.703	256	139	0	58	313
3471	NP_001349069.1	XP_017210343.1	41.791	268	156	0	49	316
3472	NP_001349069.1	XP_017210343.1	44.788	259	143	0	58	316
3473	NP_001349069.1	XP_017210343.1	44.488	254	141	0	58	311
3474	NP_001349069.1	XP_017210343.1	45.588	204	111	0	112	315
3475	NP_001349069.1	XP_017210343.1	45.270	148	81	0	166	313
3476	NP_001349069.1	XP_017210343.1	43.503	177	100	0	58	234
3477	NP_001349069.1	XP_017210343.1	51.020	98	48	0	224	321
3478	NP_001349069.1	XP_009297410.1	48.828	256	131	0	58	313
3479	NP_001349069.1	XP_009297410.1	45.896	268	145	0	49	316
3480	NP_001349069.1	XP_009297410.1	47.104	259	137	0	58	316
3481	NP_001349069.1	XP_009297410.1	46.718	259	138	0	58	316
3482	NP_001349069.1	XP_009297410.1	42.751	269	154	0	48	316
3483	NP_001349069.1	XP_009297410.1	44.815	270	149	0	47	316
3484	NP_001349069.1	XP_009297410.1	45.833	240	130	0	47	286
3485	NP_001349069.1	XP_009297410.1	44.664	253	140	0	61	313
3486	NP_001349069.1	XP_009297410.1	44.068	236	132	0	81	316
3487	NP_001349069.1	XP_009297410.1	48.092	131	64	1	186	316
3488	NP_001349069.1	XP_009297410.1	41.333	75	44	0	249	323
3489	NP_001349069.1	XP_017211221.1	46.988	249	132	0	63	311
3490	NP_001349069.1	XP_017211221.1	41.573	267	156	0	48	314
3491	NP_001349069.1	XP_017211221.1	41.634	257	150	0	60	316
3492	NP_001349069.1	XP_017211221.1	49.333	225	114	0	91	315
3493	NP_001349069.1	XP_017211221.1	47.619	168	88	0	146	313
3494	NP_001349069.1	XP_017211221.1	42.667	150	86	0	166	315
3495	NP_001349069.1	XP_005161607.1	44.569	267	148	0	50	316
3496	NP_001349069.1	XP_005161607.1	44.238	269	150	0	48	316
3497	NP_001349069.1	XP_005161607.1	43.494	269	152	0	48	316
3498	NP_001349069.1	XP_005161607.1	45.382	249	136	0	65	313
3499	NP_001349069.1	XP_005161607.1	44.690	226	125	0	93	318
3500	NP_001349069.1	XP_005161607.1	43.939	198	111	0	116	313
3501	NP_001349069.1	XP_005161607.1	40.323	124	74	0	46	169
3502	NP_001349069.1	XP_009294102.1	44.569	267	148	0	50	316
3503	NP_001349069.1	XP_009294102.1	44.238	269	150	0	48	316
3504	NP_001349069.1	XP_009294102.1	43.494	269	152	0	48	316
3505	NP_001349069.1	XP_009294102.1	45.382	249	136	0	65	313
3506	NP_001349069.1	XP_009294102.1	44.690	226	125	0	93	318
3507	NP_001349069.1	XP_009294102.1	43.939	198	111	0	116	313
3508	NP_001349069.1	XP_009294102.1	40.323	124	74	0	46	169
3509	NP_001349069.1	XP_009294101.1	44.569	267	148	0	50	316

3510	NP_001349069.1	XP_009294101.1	44.238	269	150	0	48	316
3511	NP_001349069.1	XP_009294101.1	43.494	269	152	0	48	316
3512	NP_001349069.1	XP_009294101.1	45.382	249	136	0	65	313
3513	NP_001349069.1	XP_009294101.1	44.690	226	125	0	93	318
3514	NP_001349069.1	XP_009294101.1	43.939	198	111	0	116	313
3515	NP_001349069.1	XP_009294101.1	40.323	124	74	0	46	169
3516	NP_001349069.1	XP_021330691.1	43.333	300	170	0	14	313
3517	NP_001349069.1	XP_021330691.1	44.444	261	145	0	50	310
3518	NP_001349069.1	XP_021330691.1	44.358	257	141	1	58	314
3519	NP_001349069.1	XP_021330691.1	42.857	210	118	1	48	257
3520	NP_001349069.1	XP_021330691.1	42.857	182	102	1	137	318
3521	NP_001349069.1	XP_021330691.1	42.623	61	35	0	259	319
3522	NP_001349069.1	NP_001013514.1	43.542	271	153	0	46	316
3523	NP_001349069.1	NP_001013514.1	43.446	267	151	0	50	316
3524	NP_001349069.1	NP_001013514.1	45.660	265	144	0	49	313
3525	NP_001349069.1	NP_001013514.1	46.718	259	138	0	58	316
3526	NP_001349069.1	NP_001013514.1	43.060	281	153	2	42	316
3527	NP_001349069.1	NP_001013514.1	42.387	243	136	1	45	287
3528	NP_001349069.1	XP_021323881.1	46.642	268	143	0	46	313
3529	NP_001349069.1	XP_021323881.1	45.556	270	147	0	46	315
3530	NP_001349069.1	XP_021323881.1	45.423	284	154	1	47	329
3531	NP_001349069.1	XP_021323881.1	46.853	286	146	1	36	315
3532	NP_001349069.1	XP_021323881.1	46.899	258	137	0	58	315
3533	NP_001349069.1	XP_021323881.1	46.350	274	147	0	46	319
3534	NP_001349069.1	XP_021323881.1	45.788	273	147	1	58	329
3535	NP_001349069.1	XP_021323881.1	45.865	266	144	0	48	313
3536	NP_001349069.1	XP_021323881.1	44.526	274	152	0	46	319
3537	NP_001349069.1	XP_021323881.1	46.094	256	138	0	58	313
3538	NP_001349069.1	XP_021323881.1	45.489	266	145	0	48	313
3539	NP_001349069.1	XP_021323881.1	44.030	268	150	0	46	313
3540	NP_001349069.1	XP_021323881.1	47.674	258	135	0	58	315
3541	NP_001349069.1	XP_021323881.1	40.753	292	169	1	46	337
3542	NP_001349069.1	XP_021323881.1	45.490	255	139	0	61	315
3543	NP_001349069.1	XP_021323881.1	45.455	253	138	0	63	315
3544	NP_001349069.1	XP_021323881.1	38.538	301	142	1	58	315
3545	NP_001349069.1	XP_021323881.1	47.034	236	123	1	82	315
3546	NP_001349069.1	XP_021323881.1	45.852	229	124	0	58	286
3547	NP_001349069.1	XP_021323881.1	35.783	313	158	1	49	318
3548	NP_001349069.1	XP_021323881.1	33.968	315	165	1	47	318
3549	NP_001349069.1	XP_021323881.1	42.180	211	122	0	48	258
3550	NP_001349069.1	XP_021323881.1	42.857	210	118	1	111	318
3551	NP_001349069.1	NP_001289569.1	46.063	254	137	0	60	313
3552	NP_001349069.1	NP_001289569.1	38.710	186	114	0	47	232

3553	NP_001349069.1	NP_001289569.1	43.548	124	70	0	195	318
3554	NP_001349069.1	NP_001289569.1	40.984	61	36	0	259	319
3555	NP_001349069.1	NP_001103952.2	46.063	254	137	0	60	313
3556	NP_001349069.1	NP_001103952.2	38.710	186	114	0	47	232
3557	NP_001349069.1	NP_001103952.2	43.548	124	70	0	195	318
3558	NP_001349069.1	NP_001103952.2	40.984	61	36	0	259	319
3559	NP_001349069.1	XP_017209854.1	46.988	249	132	0	63	311
3560	NP_001349069.1	XP_017209854.1	49.333	225	114	0	91	315
3561	NP_001349069.1	XP_017209854.1	39.850	266	160	0	48	313
3562	NP_001349069.1	XP_017209854.1	43.452	168	95	0	146	313
3563	NP_001349069.1	XP_017209854.1	44.444	144	80	0	172	315
3564	NP_001349069.1	XP_017209854.1	34.831	89	58	0	58	146
3565	NP_001349069.1	XP_009294140.1	41.613	310	172	2	6	314
3566	NP_001349069.1	XP_009294140.1	44.944	267	147	0	47	313
3567	NP_001349069.1	XP_009294140.1	42.803	264	151	0	50	313
3568	NP_001349069.1	XP_009294140.1	41.833	251	146	0	61	311
3569	NP_001349069.1	XP_009294140.1	40.984	244	144	0	70	313
3570	NP_001349069.1	XP_009294140.1	41.872	203	90	1	58	232
3571	NP_001349069.1	XP_009294140.1	40.845	71	42	0	246	316
3572	NP_001349069.1	XP_021331129.1	44.275	262	146	0	50	311
3573	NP_001349069.1	XP_021331129.1	43.243	259	147	0	58	316
3574	NP_001349069.1	XP_021331129.1	43.802	242	136	0	74	315
3575	NP_001349069.1	XP_021331129.1	40.784	255	151	0	60	314
3576	NP_001349069.1	XP_021331129.1	42.222	225	130	0	58	282
3577	NP_001349069.1	XP_021331129.1	43.379	219	124	0	98	316
3578	NP_001349069.1	XP_021331129.1	38.525	122	75	0	48	169
3579	NP_001349069.1	XP_021331384.1	42.379	269	155	0	48	316
3580	NP_001349069.1	XP_021331384.1	47.036	253	134	0	63	315
3581	NP_001349069.1	XP_021331384.1	44.358	257	143	0	58	314
3582	NP_001349069.1	XP_021331384.1	45.238	252	138	0	60	311
3583	NP_001349069.1	XP_021331384.1	44.706	170	94	0	146	315
3584	NP_001349069.1	XP_021331384.1	39.205	176	98	2	167	333
3585	NP_001349069.1	XP_009291588.1	45.783	249	135	0	65	313
3586	NP_001349069.1	XP_009291588.1	41.549	284	166	0	2	285
3587	NP_001349069.1	XP_009291588.1	48.223	197	102	0	120	316
3588	NP_001349069.1	XP_009291588.1	39.888	178	73	3	58	204
3589	NP_001349069.1	XP_009291588.1	45.238	126	69	0	188	313
3590	NP_001349069.1	XP_009291588.1	30.233	43	30	0	49	91
3591	NP_001349069.1	XP_009291587.1	45.783	249	135	0	65	313
3592	NP_001349069.1	XP_009291587.1	41.549	284	166	0	2	285
3593	NP_001349069.1	XP_009291587.1	48.223	197	102	0	120	316
3594	NP_001349069.1	XP_009291587.1	39.888	178	73	3	58	204
3595	NP_001349069.1	XP_009291587.1	45.238	126	69	0	188	313

3596	NP_001349069.1	XP_009291587.1	30.233	43	30	0	49	91
3597	NP_001349069.1	XP_017208652.1	44.853	272	150	0	42	313
3598	NP_001349069.1	XP_017208652.1	45.312	256	140	0	58	313
3599	NP_001349069.1	XP_017208652.1	43.511	262	148	0	50	311
3600	NP_001349069.1	XP_017208652.1	45.703	256	139	0	58	313
3601	NP_001349069.1	XP_017208652.1	44.651	215	99	2	119	313
3602	NP_001349069.1	XP_021327374.1	46.642	268	143	0	47	314
3603	NP_001349069.1	XP_021327374.1	48.375	277	142	1	58	333
3604	NP_001349069.1	XP_021327374.1	45.693	267	145	0	47	313
3605	NP_001349069.1	XP_021327374.1	46.992	266	141	0	48	313
3606	NP_001349069.1	XP_021327374.1	47.451	255	134	0	59	313
3607	NP_001349069.1	XP_021327374.1	47.244	254	134	0	58	311
3608	NP_001349069.1	XP_021327374.1	45.489	266	145	0	48	313
3609	NP_001349069.1	XP_021327374.1	45.635	252	137	0	60	311
3610	NP_001349069.1	XP_021327374.1	45.882	255	138	0	60	314
3611	NP_001349069.1	XP_021327374.1	44.922	256	141	0	58	313
3612	NP_001349069.1	XP_021327374.1	45.038	262	144	0	49	310
3613	NP_001349069.1	XP_021327374.1	45.076	264	145	0	50	313
3614	NP_001349069.1	XP_021327374.1	42.754	276	152	1	44	313
3615	NP_001349069.1	XP_021327374.1	47.234	235	120	1	83	313
3616	NP_001349069.1	XP_021327374.1	42.197	173	100	0	144	316
3617	NP_001349069.1	XP_021327374.1	38.806	67	41	0	48	114
3618	NP_001349069.1	NP_001104697.1	46.332	259	139	0	58	316
3619	NP_001349069.1	NP_001104697.1	46.552	232	124	0	82	313
3620	NP_001349069.1	NP_001104697.1	44.809	183	101	0	47	229
3621	NP_001349069.1	XP_021325148.1	46.008	263	142	0	50	312
3622	NP_001349069.1	XP_021325148.1	44.269	253	141	0	61	313
3623	NP_001349069.1	XP_021325148.1	44.253	174	97	0	143	316
3624	NP_001349069.1	XP_021325148.1	41.270	126	74	0	190	315
3625	NP_001349069.1	XP_021325148.1	51.429	35	17	0	285	319
3626	NP_001349069.1	XP_021327400.1	46.332	259	139	0	58	316
3627	NP_001349069.1	XP_021327400.1	44.697	264	145	1	51	313
3628	NP_001349069.1	XP_021327400.1	44.809	183	101	0	47	229
3629	NP_001349069.1	XP_017210930.1	45.098	255	139	1	60	314
3630	NP_001349069.1	XP_017210930.1	41.544	272	159	0	63	334
3631	NP_001349069.1	XP_017210930.1	43.860	228	127	1	58	285
3632	NP_001349069.1	XP_017210930.1	43.452	168	95	0	146	313
3633	NP_001349069.1	XP_021331031.1	48.918	231	118	0	60	290
3634	NP_001349069.1	XP_021331031.1	47.479	238	122	1	81	315
3635	NP_001349069.1	XP_021331031.1	50.000	206	103	0	56	261
3636	NP_001349069.1	XP_021331031.1	47.685	216	112	1	119	333
3637	NP_001349069.1	XP_021331031.1	48.344	151	78	0	56	206
3638	NP_001349069.1	XP_009301276.1	45.896	268	145	0	49	316

3639	NP_001349069.1	XP_009301276.1	40.714	280	138	1	58	309
3640	NP_001349069.1	XP_009301276.1	43.874	253	142	0	61	313
3641	NP_001349069.1	XP_009301276.1	43.590	234	132	0	48	281
3642	NP_001349069.1	XP_009301276.1	41.618	173	101	0	144	316
3643	NP_001349069.1	XP_009301276.1	40.769	130	73	1	182	311
3644	NP_001349069.1	XP_009301276.1	43.802	121	68	0	50	170
3645	NP_001349069.1	XP_009301276.1	34.043	47	31	0	270	316
3646	NP_001349069.1	XP_021325064.1	45.833	264	143	0	50	313
3647	NP_001349069.1	XP_021325064.1	45.833	264	143	0	50	313
3648	NP_001349069.1	XP_021325064.1	44.186	258	144	0	58	315
3649	NP_001349069.1	XP_021325064.1	41.825	263	153	0	48	310
3650	NP_001349069.1	XP_021325064.1	43.478	253	143	0	61	313
3651	NP_001349069.1	XP_021325064.1	41.636	269	157	0	48	316
3652	NP_001349069.1	XP_021325064.1	42.797	236	135	0	47	282
3653	NP_001349069.1	XP_021325064.1	42.920	226	129	0	86	311
3654	NP_001349069.1	XP_021325064.1	43.353	173	98	0	142	314
3655	NP_001349069.1	XP_017208849.1	45.489	266	145	0	50	315
3656	NP_001349069.1	XP_017208849.1	45.833	264	143	0	50	313
3657	NP_001349069.1	XP_017208849.1	44.186	258	144	0	58	315
3658	NP_001349069.1	XP_017208849.1	41.729	266	155	0	48	313
3659	NP_001349069.1	XP_017208849.1	43.478	253	143	0	61	313
3660	NP_001349069.1	XP_017208849.1	41.636	269	157	0	48	316
3661	NP_001349069.1	XP_017208849.1	42.739	241	138	0	47	287
3662	NP_001349069.1	XP_017208849.1	42.920	226	129	0	86	311
3663	NP_001349069.1	XP_017208849.1	43.169	183	104	0	50	232
3664	NP_001349069.1	XP_017208849.1	43.353	173	98	0	142	314
3665	NP_001349069.1	XP_017208849.1	39.785	93	56	0	226	318
3666	NP_001349069.1	XP_017210824.1	44.706	255	140	1	60	314
3667	NP_001349069.1	XP_017210824.1	42.279	272	157	0	63	334
3668	NP_001349069.1	XP_017210824.1	44.298	228	126	1	58	285
3669	NP_001349069.1	XP_017210824.1	45.833	168	91	0	146	313
3670	NP_001349069.1	XP_017209950.1	45.896	268	145	0	49	316
3671	NP_001349069.1	XP_017209950.1	41.071	280	137	1	58	309
3672	NP_001349069.1	XP_017209950.1	43.529	255	144	0	59	313
3673	NP_001349069.1	XP_017209950.1	42.000	150	87	0	48	197
3674	NP_001349069.1	XP_017209950.1	43.802	121	68	0	50	170
3675	NP_001349069.1	XP_017209950.1	44.118	34	19	0	283	316
3676	NP_001349069.1	XP_017210008.1	42.434	304	163	1	29	320
3677	NP_001349069.1	XP_017210008.1	40.000	280	166	1	37	316
3678	NP_001349069.1	XP_017211189.1	45.600	250	136	0	63	312
3679	NP_001349069.1	XP_017211189.1	42.023	257	148	1	58	314
3680	NP_001349069.1	XP_017211189.1	44.444	171	95	0	146	316
3681	NP_001349069.1	XP_017211189.1	42.945	163	92	1	172	333

3682	NP_001349069.1	XP_009294078.1	40.273	293	147	1	47	311
3683	NP_001349069.1	XP_009294078.1	46.245	253	136	0	61	313
3684	NP_001349069.1	XP_009294078.1	41.667	264	154	0	50	313
3685	NP_001349069.1	XP_009294078.1	41.199	267	157	0	47	313
3686	NP_001349069.1	XP_009294078.1	40.283	283	168	1	47	329
3687	NP_001349069.1	XP_009294078.1	40.467	257	151	1	46	302
3688	NP_001349069.1	XP_009294078.1	44.253	174	97	0	142	315
3689	NP_001349069.1	XP_021322226.1	43.841	276	149	1	44	313
3690	NP_001349069.1	XP_021322226.1	44.615	260	144	0	56	315
3691	NP_001349069.1	XP_021322226.1	42.069	290	162	1	30	313
3692	NP_001349069.1	XP_021322226.1	43.023	258	147	0	56	313
3693	NP_001349069.1	XP_021322226.1	44.574	258	143	0	56	313
3694	NP_001349069.1	XP_021322226.1	44.574	258	143	0	56	313
3695	NP_001349069.1	XP_021322226.1	44.488	254	141	0	60	313
3696	NP_001349069.1	XP_021322226.1	39.860	286	144	1	58	315
3697	NP_001349069.1	XP_021322226.1	41.473	258	151	0	56	313
3698	NP_001349069.1	XP_021322226.1	42.969	256	146	0	58	313
3699	NP_001349069.1	XP_021322226.1	41.339	254	149	0	58	311
3700	NP_001349069.1	XP_021322226.1	46.552	232	124	0	58	289
3701	NP_001349069.1	XP_021322226.1	38.436	307	140	1	56	313
3702	NP_001349069.1	XP_021322226.1	37.241	290	133	1	56	296
3703	NP_001349069.1	XP_021322226.1	41.364	220	129	0	65	284
3704	NP_001349069.1	XP_021322226.1	35.690	297	143	1	65	313
3705	NP_001349069.1	XP_021322226.1	41.441	222	130	0	93	314
3706	NP_001349069.1	XP_021322226.1	37.063	286	160	3	48	313
3707	NP_001349069.1	XP_021322226.1	35.172	290	150	2	56	307
3708	NP_001349069.1	XP_021322226.1	30.747	348	148	4	56	313
3709	NP_001349069.1	XP_021322226.1	28.329	353	166	2	48	313
3710	NP_001349069.1	XP_021322226.1	37.931	87	54	0	58	144
3711	NP_001349069.1	XP_021322226.1	34.211	76	47	1	42	117
3712	NP_001349069.1	XP_017210034.1	46.586	249	133	0	63	311
3713	NP_001349069.1	XP_017210034.1	48.444	225	116	0	91	315
3714	NP_001349069.1	XP_017210034.1	40.226	266	159	0	48	313
3715	NP_001349069.1	XP_017210034.1	44.048	168	94	0	146	313
3716	NP_001349069.1	XP_017210034.1	44.444	144	80	0	172	315
3717	NP_001349069.1	XP_017210034.1	35.955	89	57	0	58	146
3718	NP_001349069.1	XP_009297415.1	46.296	270	145	0	47	316
3719	NP_001349069.1	XP_009297415.1	43.885	278	154	1	39	316
3720	NP_001349069.1	XP_009297415.1	44.275	262	146	0	49	310
3721	NP_001349069.1	XP_009297415.1	37.771	323	147	2	48	316
3722	NP_001349069.1	XP_009297415.1	45.339	236	129	0	47	282
3723	NP_001349069.1	XP_009297415.1	40.000	285	145	1	58	316
3724	NP_001349069.1	XP_009297415.1	42.012	169	96	1	143	311

3725	NP_001349069.1	XP_009297415.1	43.103	116	66	0	199	314
3726	NP_001349069.1	XP_005174571.3	41.297	293	149	2	39	311
3727	NP_001349069.1	XP_005174571.3	41.797	256	148	1	59	314
3728	NP_001349069.1	XP_005174571.3	41.732	254	148	0	60	313
3729	NP_001349069.1	XP_005174571.3	42.439	205	114	1	116	316
3730	NP_001349069.1	XP_005174571.3	39.109	202	122	1	56	257
3731	NP_001349069.1	XP_005174571.3	42.405	158	83	2	167	316
3732	NP_001349069.1	XP_017211093.2	42.322	267	154	0	50	316
3733	NP_001349069.1	XP_017211093.2	44.578	249	138	0	63	311
3734	NP_001349069.1	XP_017211093.2	43.629	259	146	0	56	314
3735	NP_001349069.1	XP_017211093.2	48.430	223	115	0	91	313
3736	NP_001349069.1	XP_017211093.2	43.386	189	106	1	146	333
3737	NP_001349069.1	NP_001103337.1	45.600	250	136	0	63	312
3738	NP_001349069.1	NP_001103337.1	42.023	257	148	1	58	314
3739	NP_001349069.1	NP_001103337.1	43.860	171	96	0	146	316
3740	NP_001349069.1	NP_001103337.1	42.331	163	93	1	172	333
3741	NP_001349069.1	XP_021325072.1	47.656	256	134	0	58	313
3742	NP_001349069.1	XP_021325072.1	43.939	264	148	0	50	313
3743	NP_001349069.1	XP_021325072.1	44.105	229	128	0	58	286
3744	NP_001349069.1	XP_021325072.1	42.857	196	112	0	116	311
3745	NP_001349069.1	XP_021325072.1	43.062	209	119	0	50	258
3746	NP_001349069.1	XP_021325072.1	42.690	171	98	0	143	313
3747	NP_001349069.1	XP_021331357.1	38.344	326	177	3	29	333
3748	NP_001349069.1	XP_021331357.1	42.412	257	147	1	58	314
3749	NP_001349069.1	XP_021331357.1	35.294	68	43	1	49	116
3750	NP_001349069.1	XP_021333299.1	52.315	216	103	0	68	283
3751	NP_001349069.1	XP_021333299.1	50.691	217	107	0	95	311
3752	NP_001349069.1	XP_021333299.1	53.535	198	92	0	58	255
3753	NP_001349069.1	XP_021333299.1	54.082	196	90	0	124	319
3754	NP_001349069.1	XP_021333299.1	53.374	163	76	0	151	313
3755	NP_001349069.1	XP_017210035.1	46.586	249	133	0	63	311
3756	NP_001349069.1	XP_017210035.1	40.977	266	157	0	48	313
3757	NP_001349069.1	XP_017210035.1	48.000	225	117	0	91	315
3758	NP_001349069.1	XP_017210035.1	42.857	168	96	0	146	313
3759	NP_001349069.1	XP_017210035.1	43.750	144	81	0	172	315
3760	NP_001349069.1	XP_017210035.1	35.955	89	57	0	58	146
3761	NP_001349069.1	XP_017211087.1	46.586	249	133	0	63	311
3762	NP_001349069.1	XP_017211087.1	48.889	225	115	0	91	315
3763	NP_001349069.1	XP_017211087.1	41.569	255	149	0	60	314
3764	NP_001349069.1	XP_017211087.1	42.982	228	130	0	58	285
3765	NP_001349069.1	XP_017211087.1	44.643	168	93	0	146	313
3766	NP_001349069.1	XP_017211087.1	43.750	144	81	0	172	315
3767	NP_001349069.1	XP_017211087.1	41.346	104	60	1	231	333

3768	NP_001349069.1	XP_017211087.1	37.079	89	56	0	58	146
3769	NP_001349069.1	XP_005168517.1	48.047	256	133	0	58	313
3770	NP_001349069.1	XP_005168517.1	41.481	270	158	0	47	316
3771	NP_001349069.1	XP_005168517.1	43.561	264	148	1	51	313
3772	NP_001349069.1	XP_005168517.1	40.807	223	132	0	49	271
3773	NP_001349069.1	XP_005168517.1	45.625	160	87	0	58	217
3774	NP_001349069.1	NP_001108190.1	45.600	250	136	0	63	312
3775	NP_001349069.1	NP_001108190.1	42.023	257	148	1	58	314
3776	NP_001349069.1	NP_001108190.1	44.444	171	95	0	146	316
3777	NP_001349069.1	NP_001108190.1	42.945	163	92	1	172	333
3778	NP_001349069.1	XP_021330571.1	45.600	250	136	0	63	312
3779	NP_001349069.1	XP_021330571.1	42.023	257	148	1	58	314
3780	NP_001349069.1	XP_021330571.1	44.444	171	95	0	146	316
3781	NP_001349069.1	XP_021330571.1	42.945	163	92	1	172	333
3782	NP_001349069.1	NP_001083044.1	47.566	267	132	2	57	315
3783	NP_001349069.1	NP_001083044.1	41.700	247	136	2	49	287
3784	NP_001349069.1	NP_001083044.1	43.226	155	88	0	47	201
3785	NP_001349069.1	NP_001083044.1	29.412	51	36	0	50	100
3786	NP_001349069.1	XP_021325074.1	47.287	258	136	0	58	315
3787	NP_001349069.1	XP_021325074.1	43.774	265	149	0	49	313
3788	NP_001349069.1	XP_021325074.1	44.105	229	128	0	58	286
3789	NP_001349069.1	XP_021325074.1	42.857	196	112	0	116	311
3790	NP_001349069.1	XP_021325074.1	43.062	209	119	0	50	258
3791	NP_001349069.1	XP_021325074.1	42.690	171	98	0	143	313
3792	NP_001349069.1	XP_002661836.5	44.094	254	142	0	63	316
3793	NP_001349069.1	XP_002661836.5	41.406	256	150	0	58	313
3794	NP_001349069.1	XP_002661836.5	45.238	168	92	0	146	313
3795	NP_001349069.1	NP_001348404.1	42.069	290	161	2	30	313
3796	NP_001349069.1	XP_021323880.1	44.483	290	156	2	46	334
3797	NP_001349069.1	XP_021323880.1	44.649	271	150	0	46	316
3798	NP_001349069.1	XP_021323880.1	45.985	274	148	0	46	319
3799	NP_001349069.1	XP_021323880.1	43.750	288	161	1	47	333
3800	NP_001349069.1	XP_021323880.1	46.484	256	137	0	58	313
3801	NP_001349069.1	XP_021323880.1	45.703	256	139	0	58	313
3802	NP_001349069.1	XP_021323880.1	45.113	266	146	0	48	313
3803	NP_001349069.1	XP_021323880.1	47.287	258	136	0	58	315
3804	NP_001349069.1	XP_021323880.1	45.882	255	138	0	58	312
3805	NP_001349069.1	XP_021323880.1	42.910	268	153	0	46	313
3806	NP_001349069.1	XP_021323880.1	49.138	232	118	0	82	313
3807	NP_001349069.1	XP_021323880.1	44.151	265	148	0	51	315
3808	NP_001349069.1	XP_021323880.1	42.324	241	139	0	46	286
3809	NP_001349069.1	XP_021323880.1	35.370	311	158	1	46	313
3810	NP_001349069.1	XP_021323880.1	37.742	310	150	1	47	313

3811	NP_001349069.1	XP_021323880.1	35.987	314	158	1	48	318
3812	NP_001349069.1	XP_021323880.1	37.829	304	146	2	58	318
3813	NP_001349069.1	XP_021323880.1	47.929	169	87	1	166	333
3814	NP_001349069.1	XP_021322225.1	47.287	258	136	0	58	315
3815	NP_001349069.1	XP_021322225.1	41.748	309	166	2	19	313
3816	NP_001349069.1	XP_021322225.1	43.662	284	159	1	47	329
3817	NP_001349069.1	XP_021322225.1	44.186	258	144	0	58	315
3818	NP_001349069.1	XP_021322225.1	42.636	258	148	0	58	315
3819	NP_001349069.1	XP_021322225.1	43.969	257	144	0	59	315
3820	NP_001349069.1	XP_021322225.1	42.537	268	154	0	48	315
3821	NP_001349069.1	XP_021322225.1	41.045	268	158	0	48	315
3822	NP_001349069.1	XP_021322225.1	44.186	258	144	0	58	315
3823	NP_001349069.1	XP_021322225.1	43.023	258	147	0	58	315
3824	NP_001349069.1	XP_021322225.1	42.688	253	145	0	61	313
3825	NP_001349069.1	XP_021322225.1	42.023	257	149	0	59	315
3826	NP_001349069.1	XP_021322225.1	42.481	266	153	0	50	315
3827	NP_001349069.1	XP_021322225.1	38.095	336	196	3	25	353
3828	NP_001349069.1	XP_021322225.1	37.162	296	158	1	48	315
3829	NP_001349069.1	XP_021322225.1	39.394	264	160	0	48	311
3830	NP_001349069.1	XP_021322225.1	39.841	251	140	3	71	318
3831	NP_001349069.1	XP_021322178.1	46.484	256	137	0	58	313
3832	NP_001349069.1	XP_021322178.1	44.574	258	143	0	58	315
3833	NP_001349069.1	XP_021322178.1	46.215	251	135	0	65	315
3834	NP_001349069.1	XP_021322178.1	44.238	269	150	0	50	318
3835	NP_001349069.1	XP_021322178.1	42.180	211	94	1	50	232
3836	NP_001349069.1	XP_005161011.1	41.254	303	165	3	24	313
3837	NP_001349069.1	XP_005161011.1	44.355	248	138	0	63	310
3838	NP_001349069.1	XP_005161011.1	44.889	225	124	0	58	282
3839	NP_001349069.1	XP_005161011.1	43.820	178	99	1	143	319
3840	NP_001349069.1	XP_005161011.1	43.182	132	71	2	188	315
3841	NP_001349069.1	XP_005161011.1	42.268	97	56	0	50	146
3842	NP_001349069.1	XP_005161011.1	34.211	38	25	0	49	86
3843	NP_001349069.1	XP_017211883.2	45.455	264	144	0	48	311
3844	NP_001349069.1	XP_017211883.2	45.660	265	144	0	49	313
3845	NP_001349069.1	XP_017211883.2	46.058	241	126	1	46	286
3846	NP_001349069.1	XP_017211883.2	45.614	228	124	0	87	314
3847	NP_001349069.1	XP_017211883.2	46.512	172	92	0	144	315
3848	NP_001349069.1	XP_017211883.2	48.936	141	72	0	176	316
3849	NP_001349069.1	XP_005164989.2	45.385	260	138	1	60	315
3850	NP_001349069.1	XP_005164989.2	42.308	260	146	1	58	313
3851	NP_001349069.1	XP_005164989.2	44.538	238	128	2	58	291
3852	NP_001349069.1	XP_005164989.2	44.681	188	100	1	48	231
3853	NP_001349069.1	XP_005164989.2	43.353	173	98	0	146	318

3854	NP_001349069.1	XP_005170427.2	45.318	267	146	0	49	315
3855	NP_001349069.1	XP_005170427.2	44.622	251	139	0	61	311
3856	NP_001349069.1	XP_005170427.2	43.182	220	125	0	93	312
3857	NP_001349069.1	XP_005170427.2	45.876	194	105	0	120	313
3858	NP_001349069.1	XP_005170427.2	45.029	171	94	0	145	315
3859	NP_001349069.1	XP_005170427.2	38.462	117	44	1	58	146
3860	NP_001349069.1	XP_017211088.1	46.185	249	134	0	63	311
3861	NP_001349069.1	XP_017211088.1	48.000	225	117	0	91	315
3862	NP_001349069.1	XP_017211088.1	40.449	267	159	0	48	314
3863	NP_001349069.1	XP_017211088.1	43.452	168	95	0	146	313
3864	NP_001349069.1	XP_017211088.1	43.750	144	81	0	172	315
3865	NP_001349069.1	XP_009294081.2	45.455	264	144	0	50	313
3866	NP_001349069.1	XP_009294081.2	41.447	304	172	1	16	313
3867	NP_001349069.1	XP_009294081.2	41.844	282	157	1	6	287
3868	NP_001349069.1	XP_009294081.2	46.328	177	95	0	56	232
3869	NP_001349069.1	XP_009294081.2	33.846	65	43	0	254	318
3870	NP_001349069.1	XP_017206615.1	42.069	290	161	2	30	313
3871	NP_001349069.1	XP_009294100.1	46.304	257	138	0	58	314
3872	NP_001349069.1	XP_009294100.1	41.700	247	144	0	65	311
3873	NP_001349069.1	XP_009294100.1	44.690	226	125	0	93	318
3874	NP_001349069.1	XP_009294100.1	43.655	197	111	0	120	316
3875	NP_001349069.1	XP_017211314.1	46.185	249	134	0	65	313
3876	NP_001349069.1	XP_017211314.1	43.946	223	125	0	93	315
3877	NP_001349069.1	XP_017211314.1	42.500	200	115	0	58	257
3878	NP_001349069.1	XP_017211314.1	40.458	131	77	1	204	333
3879	NP_001349069.1	XP_017211314.1	39.623	106	63	1	231	335
3880	NP_001349069.1	XP_017211314.1	41.667	96	56	0	50	145
3881	NP_001349069.1	XP_017211314.1	38.095	42	26	0	48	89
3882	NP_001349069.1	XP_003201694.1	46.185	249	134	0	65	313
3883	NP_001349069.1	XP_003201694.1	43.946	223	125	0	93	315
3884	NP_001349069.1	XP_003201694.1	42.500	200	115	0	58	257
3885	NP_001349069.1	XP_003201694.1	40.458	131	77	1	204	333
3886	NP_001349069.1	XP_003201694.1	39.623	106	63	1	231	335
3887	NP_001349069.1	XP_003201694.1	41.667	96	56	0	50	145
3888	NP_001349069.1	XP_003201694.1	38.095	42	26	0	48	89
3889	NP_001349069.1	XP_017211136.2	44.094	254	142	0	63	316
3890	NP_001349069.1	XP_017211136.2	40.625	256	152	0	58	313
3891	NP_001349069.1	XP_017211136.2	44.643	168	93	0	146	313
3892	NP_001349069.1	XP_001334166.2	45.020	251	138	0	63	313
3893	NP_001349069.1	XP_001334166.2	43.805	226	127	0	91	316
3894	NP_001349069.1	XP_001334166.2	40.952	210	124	0	48	257
3895	NP_001349069.1	XP_001334166.2	42.408	191	109	1	146	335
3896	NP_001349069.1	XP_001334166.2	45.775	142	77	0	172	313

3897	NP_001349069.1	XP_001334166.2	35.955	89	57	0	58	146
3898	NP_001349069.1	XP_009289655.2	41.196	301	170	2	19	313
3899	NP_001349069.1	XP_021327023.1	43.273	275	156	0	48	322
3900	NP_001349069.1	XP_021327023.1	44.269	253	141	0	61	313
3901	NP_001349069.1	XP_021327023.1	41.228	228	128	1	39	260
3902	NP_001349069.1	XP_021327023.1	53.704	54	25	0	261	314
3903	NP_001349069.1	XP_017210201.2	44.610	269	148	1	48	316
3904	NP_001349069.1	XP_017210201.2	44.531	256	141	1	61	316
3905	NP_001349069.1	XP_017210201.2	42.718	206	111	1	49	254
3906	NP_001349069.1	XP_021329630.1	44.610	269	148	1	48	316
3907	NP_001349069.1	XP_021329630.1	44.531	256	141	1	61	316
3908	NP_001349069.1	XP_021329630.1	42.718	206	111	1	49	254
3909	NP_001349069.1	XP_021329629.1	44.610	269	148	1	48	316
3910	NP_001349069.1	XP_021329629.1	44.531	256	141	1	61	316
3911	NP_001349069.1	XP_021329629.1	42.718	206	111	1	49	254
3912	NP_001349069.1	NP_001103309.1	50.000	232	116	0	59	290
3913	NP_001349069.1	NP_001103309.1	47.967	246	124	1	70	315
3914	NP_001349069.1	NP_001103309.1	50.000	214	107	0	48	261
3915	NP_001349069.1	NP_001103309.1	54.362	149	68	0	58	206
3916	NP_001349069.1	XP_009301951.2	43.939	264	148	0	50	313
3917	NP_001349069.1	XP_009301951.2	41.319	288	164	1	30	312
3918	NP_001349069.1	XP_009301951.2	42.353	255	147	0	58	312
3919	NP_001349069.1	XP_009301951.2	44.796	221	122	0	93	313
3920	NP_001349069.1	XP_009301951.2	42.291	227	131	0	61	287
3921	NP_001349069.1	XP_009301951.2	40.887	203	120	0	58	260
3922	NP_001349069.1	XP_009301951.2	47.929	169	88	0	145	313
3923	NP_001349069.1	XP_009301951.2	41.333	150	88	0	58	207
3924	NP_001349069.1	XP_009301951.2	40.278	72	43	0	48	119
3925	NP_001349069.1	XP_021325075.1	47.451	255	133	1	58	311
3926	NP_001349069.1	XP_021325075.1	45.455	253	138	0	63	315
3927	NP_001349069.1	XP_021325075.1	43.564	202	114	0	114	315
3928	NP_001349069.1	XP_021325075.1	38.194	144	61	1	50	165
3929	NP_001349069.1	XP_017207345.1	47.843	255	132	1	58	311
3930	NP_001349069.1	XP_017207345.1	44.118	272	149	1	42	313
3931	NP_001349069.1	XP_017207345.1	41.869	289	161	2	35	323
3932	NP_001349069.1	XP_017207345.1	40.909	198	88	1	145	313
3933	NP_001349069.1	XP_017207345.1	43.210	81	38	3	237	313
3934	NP_001349069.1	XP_017207344.1	47.843	255	132	1	58	311
3935	NP_001349069.1	XP_017207344.1	44.118	272	149	1	42	313
3936	NP_001349069.1	XP_017207344.1	41.869	289	161	2	35	323
3937	NP_001349069.1	XP_017207344.1	40.909	198	88	1	145	313
3938	NP_001349069.1	XP_017207344.1	43.210	81	38	3	237	313
3939	NP_001349069.1	XP_003198589.1	43.197	294	160	2	47	333

3940	NP_001349069.1	XP_003198589.1	40.994	322	177	4	19	333
3941	NP_001349069.1	XP_003198589.1	42.745	255	146	0	60	314
3942	NP_001349069.1	XP_003198589.1	42.066	271	151	1	49	313
3943	NP_001349069.1	XP_003198589.1	40.221	271	156	1	48	312
3944	NP_001349069.1	XP_003198589.1	43.421	228	129	0	58	285
3945	NP_001349069.1	XP_003198589.1	41.398	186	109	0	47	232
3946	NP_001349069.1	XP_009298771.1	45.783	249	135	0	63	311
3947	NP_001349069.1	XP_009298771.1	41.634	257	150	0	60	316
3948	NP_001349069.1	XP_009298771.1	41.199	267	157	0	48	314
3949	NP_001349069.1	XP_009298771.1	48.000	225	117	0	91	315
3950	NP_001349069.1	XP_009298771.1	47.619	168	88	0	146	313
3951	NP_001349069.1	XP_009298771.1	44.444	144	80	0	172	315
3952	NP_001349069.1	XP_017210202.1	44.906	265	146	0	49	313
3953	NP_001349069.1	XP_017210202.1	40.357	280	165	1	37	316
3954	NP_001349069.1	XP_017210202.1	42.523	214	123	0	49	262
3955	NP_001349069.1	XP_017210202.1	42.188	128	74	0	47	174
3956	NP_001349069.1	XP_017211185.1	45.783	249	135	0	63	311
3957	NP_001349069.1	XP_017211185.1	40.977	266	157	0	48	313
3958	NP_001349069.1	XP_017211185.1	47.556	225	118	0	91	315
3959	NP_001349069.1	XP_017211185.1	42.857	168	96	0	146	313
3960	NP_001349069.1	XP_017211185.1	43.750	144	81	0	172	315
3961	NP_001349069.1	XP_017211185.1	37.079	89	56	0	58	146
3962	NP_001349069.1	XP_021332374.1	46.642	268	143	0	47	314
3963	NP_001349069.1	XP_021332374.1	47.744	266	139	0	48	313
3964	NP_001349069.1	XP_021332374.1	49.027	257	131	0	58	314
3965	NP_001349069.1	XP_021332374.1	45.318	267	146	0	47	313
3966	NP_001349069.1	XP_021332374.1	47.266	256	135	0	58	313
3967	NP_001349069.1	XP_021332374.1	46.457	254	136	0	58	311
3968	NP_001349069.1	XP_021332374.1	45.283	265	145	0	49	313
3969	NP_001349069.1	XP_021332374.1	47.244	254	134	0	58	311
3970	NP_001349069.1	XP_021332374.1	45.113	266	146	0	48	313
3971	NP_001349069.1	XP_021332374.1	46.067	267	144	0	49	315
3972	NP_001349069.1	XP_021332374.1	47.266	256	135	0	58	313
3973	NP_001349069.1	XP_021332374.1	46.063	254	137	0	58	311
3974	NP_001349069.1	XP_021332374.1	45.098	255	140	0	60	314
3975	NP_001349069.1	XP_021332374.1	43.662	284	132	1	58	313
3976	NP_001349069.1	XP_021332374.1	44.106	263	147	0	49	311
3977	NP_001349069.1	XP_021332374.1	41.297	293	144	1	49	313
3978	NP_001349069.1	XP_021332374.1	42.029	276	154	1	44	313
3979	NP_001349069.1	XP_021332374.1	47.234	235	120	1	83	313
3980	NP_001349069.1	XP_021332374.1	42.222	225	130	0	58	282
3981	NP_001349069.1	XP_021332374.1	40.385	208	124	0	47	254
3982	NP_001349069.1	XP_021332374.1	43.353	173	98	0	144	316

3983	NP_001349069.1	XP_017211076.1	45.783	249	135	0	63	311
3984	NP_001349069.1	XP_017211076.1	42.023	257	149	0	60	316
3985	NP_001349069.1	XP_017211076.1	47.111	225	119	0	91	315
3986	NP_001349069.1	XP_017211076.1	40.226	266	159	0	48	313
3987	NP_001349069.1	XP_017211076.1	42.262	168	97	0	146	313
3988	NP_001349069.1	XP_017211076.1	43.750	144	81	0	172	315
3989	NP_001349069.1	XP_017211076.1	37.079	89	56	0	58	146
3990	NP_001349069.1	XP_021331135.1	46.586	249	133	0	63	311
3991	NP_001349069.1	XP_021331135.1	43.191	257	146	0	60	316
3992	NP_001349069.1	XP_021331135.1	47.556	225	118	0	91	315
3993	NP_001349069.1	XP_021331135.1	39.326	267	162	0	48	314
3994	NP_001349069.1	XP_017207343.2	47.843	255	132	1	58	311
3995	NP_001349069.1	XP_017207343.2	44.118	272	149	1	42	313
3996	NP_001349069.1	XP_017207343.2	42.553	282	155	2	42	323
3997	NP_001349069.1	XP_017207343.2	40.909	198	88	1	145	313
3998	NP_001349069.1	XP_017207343.2	43.210	81	38	3	237	313
3999	NP_001349069.1	XP_021330552.1	44.569	267	147	1	50	316
4000	NP_001349069.1	XP_021330552.1	41.946	298	166	2	45	336
4001	NP_001349069.1	XP_021330552.1	42.289	201	105	3	116	316
4002	NP_001349069.1	XP_021325334.1	43.098	297	141	1	48	316
4003	NP_001349069.1	XP_021325334.1	46.067	267	144	0	49	315
4004	NP_001349069.1	XP_021325334.1	46.332	259	139	0	58	316
4005	NP_001349069.1	XP_021325334.1	45.522	268	146	0	49	316
4006	NP_001349069.1	XP_021325334.1	42.069	290	163	2	30	316
4007	NP_001349069.1	XP_021325334.1	42.593	270	155	0	48	317
4008	NP_001349069.1	XP_021325334.1	41.034	290	171	0	24	313
4009	NP_001349069.1	XP_021325334.1	43.359	256	145	0	58	313
4010	NP_001349069.1	XP_021325334.1	43.446	267	151	0	48	314
4011	NP_001349069.1	XP_021325334.1	36.824	296	144	1	64	316
4012	NP_001349069.1	XP_021325334.1	40.784	255	146	2	74	327
4013	NP_001349069.1	XP_021325334.1	35.048	311	159	1	46	313
4014	NP_001349069.1	NP_001373758.1	47.471	257	135	0	58	314
4015	NP_001349069.1	NP_001373758.1	39.908	218	127	2	86	303
4016	NP_001349069.1	NP_001373758.1	40.201	199	116	1	61	259
4017	NP_001349069.1	NP_001373758.1	40.625	192	114	0	119	310
4018	NP_001349069.1	NP_001373758.1	44.186	172	96	0	142	313
4019	NP_001349069.1	NP_001373758.1	45.513	156	84	1	43	198
4020	NP_001349069.1	NP_001373758.1	32.302	291	173	6	46	313
4021	NP_001349069.1	NP_001373758.1	37.931	174	105	1	58	231
4022	NP_001349069.1	NP_001373758.1	42.276	123	71	0	48	170
4023	NP_001349069.1	NP_001373758.1	49.206	63	32	0	58	120
4024	NP_001349069.1	NP_001373758.1	48.485	33	17	0	284	316
4025	NP_001349069.1	XP_017207359.1	44.444	261	145	0	53	313

4026	NP_001349069.1	XP_017207359.1	39.535	86	52	0	231	316
4027	NP_001349069.1	XP_017207359.1	38.571	70	43	0	47	116
4028	NP_001349069.1	XP_017210850.1	49.123	228	116	0	80	307
4029	NP_001349069.1	XP_017210850.1	49.550	222	112	0	58	279
4030	NP_001349069.1	XP_017210850.1	51.415	212	103	0	108	319
4031	NP_001349069.1	XP_017210850.1	51.634	153	74	0	163	315
4032	NP_001349069.1	XP_021331016.1	45.968	248	134	0	91	338
4033	NP_001349069.1	XP_021331016.1	50.459	218	107	1	63	279
4034	NP_001349069.1	XP_021331016.1	46.117	206	106	1	58	263
4035	NP_001349069.1	XP_017208875.1	42.966	263	149	1	55	316
4036	NP_001349069.1	XP_017208875.1	43.295	261	147	1	50	309
4037	NP_001349069.1	XP_017208875.1	41.667	216	125	1	102	316
4038	NP_001349069.1	XP_017208875.1	43.421	152	85	1	168	318
4039	NP_001349069.1	XP_017208875.1	42.963	135	68	2	189	314
4040	NP_001349069.1	XP_005168295.1	46.094	256	138	0	58	313
4041	NP_001349069.1	XP_005168295.1	44.747	257	142	0	60	316
4042	NP_001349069.1	XP_005168295.1	44.922	256	141	0	58	313
4043	NP_001349069.1	XP_005168295.1	40.873	252	149	0	65	316
4044	NP_001349069.1	XP_005168295.1	39.320	206	125	0	26	231
4045	NP_001349069.1	XP_005168295.1	43.537	147	83	0	58	204
4046	NP_001349069.1	XP_005168295.1	42.857	84	48	0	231	314
4047	NP_001349069.1	XP_021327154.1	49.383	243	122	1	50	291
4048	NP_001349069.1	XP_021327154.1	46.914	243	125	1	73	315
4049	NP_001349069.1	XP_021327154.1	50.235	213	106	0	49	261
4050	NP_001349069.1	XP_017210823.1	43.307	254	144	0	63	316
4051	NP_001349069.1	XP_017210823.1	42.023	257	149	0	58	314
4052	NP_001349069.1	XP_017210823.1	47.024	168	89	0	146	313
4053	NP_001349069.1	XP_017210823.1	48.592	142	73	0	172	313
4054	NP_001349069.1	XP_017210822.1	45.382	249	136	0	63	311
4055	NP_001349069.1	XP_017210822.1	42.023	257	149	0	60	316
4056	NP_001349069.1	XP_017210822.1	40.824	267	158	0	48	314
4057	NP_001349069.1	XP_017210822.1	47.556	225	118	0	91	315
4058	NP_001349069.1	XP_017210822.1	47.619	168	88	0	146	313
4059	NP_001349069.1	XP_017210822.1	44.444	144	80	0	172	315
4060	NP_001349069.1	XP_017210896.2	47.036	253	134	0	63	315
4061	NP_001349069.1	XP_017210896.2	40.892	269	159	0	48	316
4062	NP_001349069.1	XP_017210896.2	42.023	257	149	0	58	314
4063	NP_001349069.1	XP_017210896.2	42.353	170	98	0	146	315
4064	NP_001349069.1	XP_017210896.2	45.775	142	77	0	172	313
4065	NP_001349069.1	XP_017210986.1	44.882	254	140	0	63	316
4066	NP_001349069.1	XP_017210986.1	42.353	255	147	0	60	314
4067	NP_001349069.1	XP_017210986.1	44.737	228	126	0	58	285
4068	NP_001349069.1	XP_017210986.1	49.405	168	85	0	146	313

4069	NP_001349069.1	XP_017210986.1	44.516	155	78	1	167	313
4070	NP_001349069.1	XP_017210986.1	37.079	89	56	0	58	146
4071	NP_001349069.1	XP_017210033.1	46.245	253	136	0	63	315
4072	NP_001349069.1	XP_017210033.1	40.149	269	161	0	48	316
4073	NP_001349069.1	XP_017210033.1	42.578	256	147	0	58	313
4074	NP_001349069.1	XP_017210033.1	43.529	170	96	0	146	315
4075	NP_001349069.1	XP_017210033.1	42.331	163	93	1	172	333
4076	NP_001349069.1	XP_017210033.1	35.955	89	57	0	58	146
4077	NP_001077427.1	XP_694040.5	31.034	58	38	1	8	65
4078	NP_001077427.1	XP_021327928.1	30.400	125	72	5	6	121
4079	NP_001077427.1	XP_021327929.1	30.400	125	72	5	6	121
4080	NP_001077427.1	XP_687842.2	34.783	69	36	3	39	105
4081	NP_001077427.1	XP_021335046.1	34.783	69	36	3	39	105
4082	NP_001346644.1	XP_021331413.1	44.378	498	273	4	115	612
4083	NP_001346644.1	XP_021331413.1	42.964	533	291	8	83	612
4084	NP_001346644.1	XP_021331413.1	43.021	523	287	6	116	631
4085	NP_001346644.1	XP_021331413.1	42.447	523	290	6	118	633
4086	NP_001346644.1	XP_021331413.1	39.896	579	306	8	88	631
4087	NP_001346644.1	XP_021331413.1	42.366	524	291	6	115	631
4088	NP_001346644.1	XP_021331413.1	42.085	518	268	6	123	612
4089	NP_001346644.1	XP_021331413.1	43.496	492	274	4	115	606
4090	NP_001346644.1	XP_021331413.1	32.237	152	102	1	113	264
4091	NP_001346644.1	XP_021331108.1	41.561	551	285	5	116	632
4092	NP_001346644.1	XP_021331108.1	44.177	498	273	5	116	612
4093	NP_001346644.1	XP_021331108.1	43.321	524	286	6	116	632
4094	NP_001346644.1	XP_021331108.1	41.603	524	295	5	116	632
4095	NP_001346644.1	XP_021331108.1	42.664	518	285	7	123	632
4096	NP_001346644.1	XP_021331108.1	44.694	490	266	5	123	611
4097	NP_001346644.1	XP_021331108.1	42.771	498	280	5	116	612
4098	NP_001346644.1	XP_021331108.1	40.502	558	318	8	82	632
4099	NP_001346644.1	XP_021331108.1	41.221	524	297	6	116	632
4100	NP_001346644.1	XP_021331108.1	29.730	74	52	0	116	189
4101	NP_001346644.1	XP_021331446.1	44.266	497	273	4	116	612
4102	NP_001346644.1	XP_021331446.1	44.468	470	257	4	116	585
4103	NP_001346644.1	XP_021331446.1	45.994	337	174	3	302	631
4104	NP_001346644.1	XP_021331446.1	36.316	190	118	3	116	305
4105	NP_001346644.1	XP_021331033.1	43.287	499	277	5	116	612
4106	NP_001346644.1	XP_021331033.1	42.331	489	278	4	124	611
4107	NP_001346644.1	XP_021331033.1	37.265	585	298	8	113	631
4108	NP_001346644.1	XP_021331033.1	41.379	522	287	9	123	631
4109	NP_001346644.1	XP_021331033.1	43.432	472	261	5	116	585
4110	NP_001346644.1	XP_021331033.1	45.995	437	230	5	177	611
4111	NP_001346644.1	XP_021331033.1	38.532	218	131	3	115	332

4112	NP_001346644.1	XP_021331033.1	35.263	190	120	3	116	305
4113	NP_001346644.1	XP_021331115.1	44.082	490	270	4	123	612
4114	NP_001346644.1	XP_021331115.1	42.748	524	289	6	115	631
4115	NP_001346644.1	XP_021331115.1	43.265	490	274	4	123	612
4116	NP_001346644.1	XP_021331115.1	42.293	532	271	6	113	612
4117	NP_001346644.1	XP_021331115.1	43.469	490	273	4	123	612
4118	NP_001346644.1	XP_021331115.1	42.095	506	263	4	134	612
4119	NP_001346644.1	XP_021331115.1	43.035	481	270	4	123	603
4120	NP_001346644.1	XP_021331115.1	44.022	368	197	4	273	633
4121	NP_001346644.1	XP_021331115.1	38.667	375	223	6	89	463
4122	NP_001346644.1	XP_021331115.1	37.201	293	181	3	116	408
4123	NP_001346644.1	XP_001923745.2	41.697	554	286	6	116	635
4124	NP_001346644.1	XP_001923745.2	40.109	551	293	6	115	631
4125	NP_001346644.1	XP_001923745.2	42.052	497	284	4	116	612
4126	NP_001346644.1	XP_001923745.2	42.191	493	281	4	118	610
4127	NP_001346644.1	XP_001923745.2	42.204	481	270	5	156	636
4128	NP_001346644.1	XP_001923745.2	40.816	441	257	4	114	554
4129	NP_001346644.1	XP_021331207.1	46.696	454	238	4	158	611
4130	NP_001346644.1	XP_021331207.1	42.387	486	276	4	124	609
4131	NP_001346644.1	XP_021331207.1	42.060	466	266	4	116	581
4132	NP_001346644.1	XP_021331207.1	45.481	343	179	3	296	631
4133	NP_001346644.1	XP_021331207.1	47.308	260	129	3	379	631
4134	NP_001346644.1	XP_021331207.1	30.986	71	49	0	116	186
4135	NP_001346644.1	XP_021329622.1	43.048	525	288	6	114	631
4136	NP_001346644.1	XP_021329622.1	42.570	498	282	4	115	612
4137	NP_001346644.1	XP_021329622.1	41.445	526	297	6	113	631
4138	NP_001346644.1	XP_021329622.1	42.685	499	282	4	114	612
4139	NP_001346644.1	XP_021329622.1	41.719	477	274	4	136	612
4140	NP_001346644.1	XP_021329622.1	42.405	474	269	4	114	587
4141	NP_001346644.1	XP_021329622.1	40.871	482	274	6	158	632
4142	NP_001346644.1	XP_021329622.1	45.000	340	179	3	299	631
4143	NP_001346644.1	XP_021329622.1	47.104	259	136	1	354	612
4144	NP_001346644.1	XP_021331110.1	43.021	523	287	6	116	631
4145	NP_001346644.1	XP_021331110.1	39.421	553	298	6	113	631
4146	NP_001346644.1	XP_021331110.1	40.987	527	300	6	116	635
4147	NP_001346644.1	XP_021331110.1	40.344	523	301	6	116	631
4148	NP_001346644.1	XP_021331110.1	40.038	522	283	4	118	612
4149	NP_001346644.1	XP_021331110.1	42.094	487	278	4	124	610
4150	NP_001346644.1	XP_021331110.1	45.063	395	207	5	244	631
4151	NP_001346644.1	XP_021331110.1	36.940	268	166	3	118	385
4152	NP_001346644.1	XP_021331110.1	35.124	242	154	3	116	357
4153	NP_001346644.1	XP_021331110.1	33.471	242	155	4	88	329
4154	NP_001346644.1	XP_017211205.2	43.403	523	285	5	116	631

4155	NP_001346644.1	XP_017211205.2	43.411	516	281	6	123	631
4156	NP_001346644.1	XP_017211205.2	43.461	497	277	4	116	612
4157	NP_001346644.1	XP_017211205.2	41.603	524	299	6	89	612
4158	NP_001346644.1	XP_017211205.2	43.030	495	278	4	118	612
4159	NP_001346644.1	XP_017211205.2	40.290	551	292	6	115	631
4160	NP_001346644.1	XP_017211205.2	42.353	510	257	6	156	631
4161	NP_001346644.1	XP_017211205.2	43.497	469	261	4	117	585
4162	NP_001346644.1	XP_017211205.2	43.991	441	235	6	199	631
4163	NP_001346644.1	XP_017211205.2	38.284	303	183	4	115	417
4164	NP_001346644.1	XP_017211205.2	38.057	247	150	3	114	360
4165	NP_001346644.1	XP_017211205.2	35.638	188	118	3	118	305
4166	NP_001346644.1	XP_021331302.1	43.260	497	278	4	116	612
4167	NP_001346644.1	XP_021331302.1	44.130	494	262	7	145	631
4168	NP_001346644.1	XP_021331302.1	41.765	510	284	5	116	625
4169	NP_001346644.1	XP_021331302.1	42.920	452	247	6	187	631
4170	NP_001346644.1	XP_021331302.1	45.946	370	197	3	243	612
4171	NP_001346644.1	XP_021331302.1	44.444	225	118	2	414	631
4172	NP_001346644.1	XP_021331302.1	36.694	248	148	5	113	357
4173	NP_001346644.1	XP_021330858.1	42.095	525	293	6	114	631
4174	NP_001346644.1	XP_021330858.1	42.586	526	270	5	115	612
4175	NP_001346644.1	XP_021330858.1	41.463	533	273	7	134	631
4176	NP_001346644.1	XP_021330858.1	44.934	454	246	4	159	612
4177	NP_001346644.1	XP_021330858.1	36.348	575	278	8	123	612
4178	NP_001346644.1	XP_021330858.1	38.760	516	282	7	124	609
4179	NP_001346644.1	XP_021330858.1	46.193	197	99	2	442	631
4180	NP_001346644.1	XP_021330858.1	38.519	270	163	3	115	384
4181	NP_001346644.1	XP_021330858.1	32.812	64	43	0	123	186
4182	NP_001346644.1	XP_021331208.1	47.454	432	223	4	180	611
4183	NP_001346644.1	XP_021331208.1	45.575	452	242	4	158	609
4184	NP_001346644.1	XP_021331208.1	42.358	458	260	4	124	581
4185	NP_001346644.1	XP_021331208.1	43.379	438	244	4	116	553
4186	NP_001346644.1	XP_021331208.1	38.710	62	31	2	577	631
4187	NP_001346644.1	XP_021331208.1	30.986	71	49	0	116	186
4188	NP_001346644.1	XP_021331333.1	44.668	497	271	4	116	612
4189	NP_001346644.1	XP_021331333.1	41.756	558	284	8	109	631
4190	NP_001346644.1	XP_021331333.1	42.557	524	290	6	115	631
4191	NP_001346644.1	XP_021331333.1	43.574	498	277	4	115	612
4192	NP_001346644.1	XP_021331333.1	41.445	526	297	6	113	631
4193	NP_001346644.1	XP_021331333.1	40.653	551	313	8	88	631
4194	NP_001346644.1	XP_021331333.1	45.161	496	237	6	144	612
4195	NP_001346644.1	XP_021331333.1	43.497	469	261	4	135	603
4196	NP_001346644.1	XP_021331333.1	42.824	432	243	4	116	547
4197	NP_001346644.1	XP_021331333.1	46.917	373	189	4	266	631

4198	NP_001346644.1	XP_021331333.1	43.841	276	125	3	386	631
4199	NP_001346644.1	XP_021331333.1	37.288	295	182	3	116	410
4200	NP_001346644.1	XP_021331333.1	23.656	93	71	0	113	205
4201	NP_001346644.1	XP_021331166.1	42.748	524	289	6	115	631
4202	NP_001346644.1	XP_021331166.1	43.750	496	275	4	116	611
4203	NP_001346644.1	XP_021331166.1	42.639	523	289	6	116	631
4204	NP_001346644.1	XP_021331166.1	41.683	523	294	6	116	631
4205	NP_001346644.1	XP_021331166.1	43.478	483	262	6	156	631
4206	NP_001346644.1	XP_021331166.1	46.782	404	211	4	208	611
4207	NP_001346644.1	XP_021331166.1	42.918	466	262	4	116	581
4208	NP_001346644.1	XP_021331166.1	45.161	403	211	5	236	631
4209	NP_001346644.1	XP_021331166.1	29.577	71	50	0	116	186
4210	NP_001346644.1	XP_021330828.1	42.912	522	287	6	118	632
4211	NP_001346644.1	XP_021330828.1	43.976	498	275	4	115	612
4212	NP_001346644.1	XP_021330828.1	41.714	525	302	4	116	640
4213	NP_001346644.1	XP_021330828.1	44.643	448	237	6	191	631
4214	NP_001346644.1	XP_021330828.1	50.397	252	124	1	361	612
4215	NP_001346644.1	XP_021330828.1	46.800	250	125	3	390	632
4216	NP_001346644.1	XP_021330828.1	44.286	140	71	2	500	632
4217	NP_001346644.1	XP_021331204.1	43.852	488	270	4	124	611
4218	NP_001346644.1	XP_021331204.1	43.578	436	242	4	118	553
4219	NP_001346644.1	XP_021331204.1	40.519	385	225	4	113	497
4220	NP_001346644.1	XP_021331204.1	38.710	62	31	2	577	631
4221	NP_001346644.1	XP_021331204.1	30.986	71	49	0	116	186
4222	NP_001346644.1	XP_021331276.1	42.939	524	288	5	115	631
4223	NP_001346644.1	XP_021331276.1	43.960	505	272	6	134	631
4224	NP_001346644.1	XP_021331276.1	40.649	524	304	6	89	612
4225	NP_001346644.1	XP_021331276.1	43.750	496	269	7	115	607
4226	NP_001346644.1	XP_021331276.1	42.169	498	284	4	115	612
4227	NP_001346644.1	XP_021331276.1	41.683	499	287	4	114	612
4228	NP_001346644.1	XP_021331276.1	46.714	426	223	4	187	612
4229	NP_001346644.1	XP_021331276.1	28.571	91	65	0	123	213
4230	NP_001346644.1	XP_021331202.1	45.714	455	243	4	158	612
4231	NP_001346644.1	XP_021331202.1	41.296	494	286	4	116	609
4232	NP_001346644.1	XP_021331202.1	45.481	343	179	3	296	631
4233	NP_001346644.1	XP_021331202.1	47.308	260	129	3	379	631
4234	NP_001346644.1	XP_021331202.1	30.986	71	49	0	116	186
4235	NP_001346644.1	XP_017211133.2	43.976	498	275	4	115	612
4236	NP_001346644.1	XP_017211133.2	43.725	494	274	4	118	611
4237	NP_001346644.1	XP_017211133.2	44.306	483	239	4	156	611
4238	NP_001346644.1	XP_017211133.2	42.387	486	276	4	124	609
4239	NP_001346644.1	XP_017211133.2	40.365	493	289	5	117	609
4240	NP_001346644.1	XP_017211133.2	45.994	337	174	3	302	631

4241	NP_001346644.1	XP_017211133.2	43.131	313	142	5	354	631
4242	NP_001346644.1	XP_017211133.2	40.143	279	163	4	136	414
4243	NP_001346644.1	XP_017211133.2	32.086	187	124	3	115	301
4244	NP_001346644.1	XP_017211133.2	28.261	184	127	4	89	272
4245	NP_001346644.1	XP_021331163.1	41.843	521	292	6	118	631
4246	NP_001346644.1	XP_021331163.1	42.639	523	289	6	116	631
4247	NP_001346644.1	XP_021331163.1	41.762	522	294	5	116	631
4248	NP_001346644.1	XP_021331163.1	42.944	496	279	4	116	611
4249	NP_001346644.1	XP_021331163.1	40.883	521	300	5	116	636
4250	NP_001346644.1	XP_021331163.1	41.075	521	299	5	116	636
4251	NP_001346644.1	XP_021331163.1	41.036	502	291	5	115	616
4252	NP_001346644.1	XP_021331163.1	41.822	483	270	6	156	631
4253	NP_001346644.1	XP_021331163.1	42.140	458	254	6	180	630
4254	NP_001346644.1	XP_021331163.1	38.476	525	291	5	116	612
4255	NP_001346644.1	XP_021331163.1	43.387	431	233	6	208	631
4256	NP_001346644.1	XP_021331163.1	38.565	446	243	5	116	534
4257	NP_001346644.1	XP_021331163.1	37.818	275	167	4	114	388
4258	NP_001346644.1	XP_021331203.1	45.495	455	244	4	158	612
4259	NP_001346644.1	XP_021331203.1	42.418	488	277	4	124	611
4260	NP_001346644.1	XP_021331203.1	41.093	494	287	4	116	609
4261	NP_001346644.1	XP_021331203.1	38.710	62	31	2	577	631
4262	NP_001346644.1	XP_021331203.1	30.986	71	49	0	116	186
4263	NP_001346644.1	XP_021331376.1	42.366	524	291	6	115	631
4264	NP_001346644.1	XP_021331376.1	43.461	497	277	4	116	612
4265	NP_001346644.1	XP_021331376.1	39.818	550	317	8	89	631
4266	NP_001346644.1	XP_021331376.1	41.491	523	295	6	116	631
4267	NP_001346644.1	XP_021331376.1	40.571	525	301	6	114	631
4268	NP_001346644.1	XP_021331376.1	41.365	498	288	4	115	612
4269	NP_001346644.1	XP_021331376.1	45.287	435	234	4	178	612
4270	NP_001346644.1	XP_021331376.1	44.780	431	227	6	208	631
4271	NP_001346644.1	XP_021331376.1	41.593	452	260	4	124	575
4272	NP_001346644.1	XP_021331376.1	31.959	194	127	3	89	282
4273	NP_001346644.1	XP_021331376.1	27.966	118	85	0	118	235
4274	NP_001346644.1	XP_021331376.1	26.531	98	72	0	116	213
4275	NP_001346644.1	XP_021331266.1	44.275	524	281	5	115	631
4276	NP_001346644.1	XP_021331266.1	44.297	526	276	8	116	631
4277	NP_001346644.1	XP_021331266.1	43.574	498	277	4	115	612
4278	NP_001346644.1	XP_021331266.1	41.985	524	293	6	116	632
4279	NP_001346644.1	XP_021331266.1	43.173	498	279	4	114	611
4280	NP_001346644.1	XP_021331266.1	40.909	550	288	6	116	631
4281	NP_001346644.1	XP_021331266.1	41.491	523	295	5	116	631
4282	NP_001346644.1	XP_021331266.1	41.491	523	295	6	116	631
4283	NP_001346644.1	XP_021331266.1	43.086	499	280	4	114	612

4284	NP_001346644.1	XP_021331266.1	42.600	500	283	4	113	612
4285	NP_001346644.1	XP_021331266.1	40.105	571	277	6	123	631
4286	NP_001346644.1	XP_021331266.1	40.918	523	298	6	116	631
4287	NP_001346644.1	XP_021331266.1	43.354	489	273	4	124	612
4288	NP_001346644.1	XP_021331266.1	43.260	497	278	4	116	612
4289	NP_001346644.1	XP_021331266.1	39.564	551	296	6	115	631
4290	NP_001346644.1	XP_021331266.1	42.857	497	280	4	116	612
4291	NP_001346644.1	XP_021331266.1	41.477	528	271	7	116	612
4292	NP_001346644.1	XP_021331266.1	40.481	499	293	4	114	612
4293	NP_001346644.1	XP_021331266.1	41.961	510	283	5	116	625
4294	NP_001346644.1	XP_021331266.1	39.695	524	305	6	115	631
4295	NP_001346644.1	XP_021331266.1	43.125	480	262	6	159	631
4296	NP_001346644.1	XP_021331266.1	42.650	483	266	6	156	631
4297	NP_001346644.1	XP_021331266.1	42.308	442	251	4	113	554
4298	NP_001346644.1	XP_021331266.1	40.930	215	119	2	406	612
4299	NP_001346644.1	XP_021331211.1	42.256	523	291	6	116	631
4300	NP_001346644.1	XP_021331211.1	43.827	486	269	4	116	601
4301	NP_001346644.1	XP_021331211.1	41.091	550	287	6	116	631
4302	NP_001346644.1	XP_021331211.1	40.364	550	291	6	116	631
4303	NP_001346644.1	XP_021331211.1	41.524	525	275	6	116	612
4304	NP_001346644.1	XP_021331211.1	43.469	490	273	4	123	612
4305	NP_001346644.1	XP_021331211.1	40.727	523	299	6	116	631
4306	NP_001346644.1	XP_021331211.1	42.463	471	263	5	166	636
4307	NP_001346644.1	XP_021331211.1	39.481	347	206	4	115	461
4308	NP_001346644.1	XP_021331211.1	38.176	296	180	3	114	409
4309	NP_001346644.1	XP_003198540.5	43.074	527	283	8	116	632
4310	NP_001346644.1	XP_003198540.5	42.885	520	282	7	124	632
4311	NP_001346644.1	XP_003198540.5	41.905	525	301	4	116	640
4312	NP_001346644.1	XP_003198540.5	41.379	551	286	6	115	631
4313	NP_001346644.1	XP_003198540.5	43.086	499	280	4	116	614
4314	NP_001346644.1	XP_003198540.5	43.776	482	261	6	116	594
4315	NP_001346644.1	XP_003198540.5	43.265	490	249	8	159	632
4316	NP_001346644.1	XP_003198540.5	40.701	371	191	4	270	612
4317	NP_001346644.1	XP_021331338.1	42.200	500	285	4	113	612
4318	NP_001346644.1	XP_021331338.1	41.400	500	289	4	113	612
4319	NP_001346644.1	XP_021331338.1	41.734	496	285	4	116	611
4320	NP_001346644.1	XP_021331338.1	42.029	483	269	6	156	631
4321	NP_001346644.1	XP_021331338.1	43.107	457	256	4	156	612
4322	NP_001346644.1	XP_021331338.1	44.262	427	227	6	212	631
4323	NP_001346644.1	XP_021331338.1	48.649	259	132	1	354	612
4324	NP_001346644.1	XP_021331338.1	30.539	167	110	2	116	282
4325	NP_001346644.1	XP_021327225.1	40.727	523	299	6	116	631
4326	NP_001346644.1	XP_021327225.1	42.771	498	281	4	115	612

4327	NP_001346644.1	XP_021327225.1	43.061	490	275	4	118	607
4328	NP_001346644.1	XP_021327225.1	41.279	516	292	6	123	631
4329	NP_001346644.1	XP_021327225.1	40.727	523	299	6	116	631
4330	NP_001346644.1	XP_021327225.1	41.667	408	234	4	116	523
4331	NP_001346644.1	XP_021327225.1	35.948	153	91	3	115	264
4332	NP_001346644.1	XP_021331375.1	43.249	511	280	5	118	622
4333	NP_001346644.1	XP_021331375.1	44.421	484	258	6	156	632
4334	NP_001346644.1	XP_021331375.1	42.394	493	274	6	116	605
4335	NP_001346644.1	XP_021331375.1	46.524	374	191	4	265	631
4336	NP_001346644.1	XP_021331375.1	45.378	238	113	2	407	632
4337	NP_001346644.1	XP_021331415.1	44.064	497	274	4	116	612
4338	NP_001346644.1	XP_021331415.1	42.828	495	269	7	144	631
4339	NP_001346644.1	XP_021331415.1	39.234	548	296	6	118	631
4340	NP_001346644.1	XP_021331415.1	40.727	523	299	6	116	631
4341	NP_001346644.1	XP_021331415.1	40.546	513	282	5	117	610
4342	NP_001346644.1	XP_021331415.1	40.777	515	282	5	116	611
4343	NP_001346644.1	XP_021331415.1	29.299	157	100	3	116	272
4344	NP_001346644.1	XP_017211047.2	40.290	551	292	6	116	632
4345	NP_001346644.1	XP_017211047.2	43.713	501	272	6	115	612
4346	NP_001346644.1	XP_017211047.2	43.434	495	276	4	118	612
4347	NP_001346644.1	XP_017211047.2	42.771	498	281	4	115	612
4348	NP_001346644.1	XP_017211047.2	42.706	473	261	6	116	585
4349	NP_001346644.1	XP_017211047.2	46.798	406	212	4	207	612
4350	NP_001346644.1	XP_017211047.2	41.667	372	181	4	296	632
4351	NP_001346644.1	XP_017211047.2	35.484	248	157	3	113	360
4352	NP_001346644.1	XP_021331331.1	43.210	486	272	4	123	608
4353	NP_001346644.1	XP_021331331.1	44.639	457	249	4	156	612
4354	NP_001346644.1	XP_021331331.1	44.469	461	245	6	179	632
4355	NP_001346644.1	XP_021331331.1	43.991	466	257	4	115	580
4356	NP_001346644.1	XP_021331331.1	45.249	442	232	7	114	552
4357	NP_001346644.1	XP_021328528.1	42.360	517	287	6	124	633
4358	NP_001346644.1	XP_021328528.1	43.737	487	263	6	156	635
4359	NP_001346644.1	XP_021328528.1	42.226	521	290	6	118	631
4360	NP_001346644.1	XP_021328528.1	42.600	500	277	6	116	612
4361	NP_001346644.1	XP_021328528.1	41.509	530	293	8	116	635
4362	NP_001346644.1	XP_021328528.1	29.126	103	73	0	113	215
4363	NP_001346644.1	XP_021328500.1	42.418	521	289	6	118	631
4364	NP_001346644.1	XP_021328500.1	43.000	500	275	6	116	612
4365	NP_001346644.1	XP_021328500.1	43.892	483	260	6	156	631
4366	NP_001346644.1	XP_021328500.1	42.256	523	285	8	123	635
4367	NP_001346644.1	XP_021328500.1	28.155	103	74	0	113	215
4368	NP_001346644.1	XP_021331048.1	40.883	521	300	5	116	636
4369	NP_001346644.1	XP_021331048.1	42.259	478	272	4	135	612

4370	NP_001346644.1	XP_021331048.1	40.571	525	301	6	114	631
4371	NP_001346644.1	XP_021331048.1	45.658	403	215	4	210	612
4372	NP_001346644.1	XP_021331048.1	39.034	497	273	4	116	585
4373	NP_001346644.1	XP_021331048.1	49.145	234	118	1	379	612
4374	NP_001346644.1	XP_021331048.1	27.885	104	75	0	114	217
4375	NP_001346644.1	XP_021327003.1	42.256	523	291	5	116	631
4376	NP_001346644.1	XP_021327003.1	41.874	523	293	6	116	631
4377	NP_001346644.1	XP_021327003.1	42.830	523	288	6	116	631
4378	NP_001346644.1	XP_021327003.1	44.694	490	267	4	123	612
4379	NP_001346644.1	XP_021327003.1	42.286	525	292	6	114	631
4380	NP_001346644.1	XP_021327003.1	41.333	525	297	6	114	631
4381	NP_001346644.1	XP_021327003.1	42.944	496	279	4	116	611
4382	NP_001346644.1	XP_021327003.1	41.255	526	298	6	113	631
4383	NP_001346644.1	XP_021327003.1	40.000	525	304	6	118	635
4384	NP_001346644.1	XP_021327003.1	40.684	526	295	6	116	631
4385	NP_001346644.1	XP_021327003.1	41.279	516	292	6	123	631
4386	NP_001346644.1	XP_021327003.1	40.000	525	285	4	115	612
4387	NP_001346644.1	XP_021327003.1	41.719	477	274	4	136	612
4388	NP_001346644.1	XP_021327003.1	42.585	472	267	4	114	585
4389	NP_001346644.1	XP_021327003.1	39.171	531	286	6	135	631
4390	NP_001346644.1	XP_021327003.1	41.736	484	269	8	156	631
4391	NP_001346644.1	XP_021327003.1	43.860	285	152	3	354	631
4392	NP_001346644.1	XP_021327003.1	33.880	183	118	3	123	305
4393	NP_001346644.1	XP_021330542.1	42.256	523	291	5	116	631
4394	NP_001346644.1	XP_021330542.1	41.874	523	293	6	116	631
4395	NP_001346644.1	XP_021330542.1	42.830	523	288	6	116	631
4396	NP_001346644.1	XP_021330542.1	44.694	490	267	4	123	612
4397	NP_001346644.1	XP_021330542.1	42.286	525	292	6	114	631
4398	NP_001346644.1	XP_021330542.1	41.333	525	297	6	114	631
4399	NP_001346644.1	XP_021330542.1	42.944	496	279	4	116	611
4400	NP_001346644.1	XP_021330542.1	41.255	526	298	6	113	631
4401	NP_001346644.1	XP_021330542.1	40.000	525	304	6	118	635
4402	NP_001346644.1	XP_021330542.1	40.684	526	295	6	116	631
4403	NP_001346644.1	XP_021330542.1	41.279	516	292	6	123	631
4404	NP_001346644.1	XP_021330542.1	40.000	525	285	4	115	612
4405	NP_001346644.1	XP_021330542.1	41.719	477	274	4	136	612
4406	NP_001346644.1	XP_021330542.1	42.585	472	267	4	114	585
4407	NP_001346644.1	XP_021330542.1	39.171	531	286	6	135	631
4408	NP_001346644.1	XP_021330542.1	41.736	484	269	8	156	631
4409	NP_001346644.1	XP_021330542.1	43.860	285	152	3	354	631
4410	NP_001346644.1	XP_021330542.1	33.880	183	118	3	123	305
4411	NP_001346644.1	XP_021331200.1	43.600	500	278	4	113	612
4412	NP_001346644.1	XP_021331200.1	44.906	481	254	6	159	632

4413	NP_001346644.1	XP_021331200.1	43.888	499	274	5	116	612
4414	NP_001346644.1	XP_021331200.1	40.454	529	277	7	116	612
4415	NP_001346644.1	XP_021331200.1	41.309	443	256	4	115	557
4416	NP_001346644.1	XP_021331200.1	46.326	313	156	4	331	632
4417	NP_001346644.1	XP_021331200.1	34.409	186	119	3	120	305
4418	NP_001346644.1	XP_021327374.1	44.177	498	273	5	115	611
4419	NP_001346644.1	XP_021327374.1	41.683	511	259	6	156	631
4420	NP_001346644.1	XP_021327374.1	41.988	493	282	4	114	606
4421	NP_001346644.1	XP_021327374.1	38.879	553	299	7	114	631
4422	NP_001346644.1	XP_021327374.1	45.387	401	215	4	212	612
4423	NP_001346644.1	XP_021327374.1	40.838	382	186	5	289	631
4424	NP_001346644.1	XP_021327374.1	43.210	162	88	1	457	614
4425	NP_001346644.1	XP_021331342.1	45.055	455	246	4	158	612
4426	NP_001346644.1	XP_021331342.1	43.064	483	270	5	124	605
4427	NP_001346644.1	XP_021331342.1	45.183	436	228	6	208	636
4428	NP_001346644.1	XP_021331342.1	43.226	465	259	5	116	579
4429	NP_001346644.1	XP_021331169.1	43.182	528	283	8	114	631
4430	NP_001346644.1	XP_021331169.1	41.794	524	294	6	116	632
4431	NP_001346644.1	XP_021331169.1	40.036	552	292	7	116	632
4432	NP_001346644.1	XP_021331169.1	45.926	405	215	4	208	612
4433	NP_001346644.1	XP_021331169.1	47.917	288	142	3	352	632
4434	NP_001346644.1	XP_021331169.1	42.500	120	62	2	520	632
4435	NP_001346644.1	XP_021331448.1	41.746	527	290	8	116	632
4436	NP_001346644.1	XP_021331448.1	42.600	500	277	6	116	612
4437	NP_001346644.1	XP_021331448.1	41.779	517	290	6	123	632
4438	NP_001346644.1	XP_021331448.1	43.191	470	263	4	116	585
4439	NP_001346644.1	XP_021331448.1	42.793	444	250	4	114	557
4440	NP_001346644.1	XP_021331448.1	36.316	190	118	3	116	305
4441	NP_001346644.1	XP_021331122.1	44.079	456	252	3	156	611
4442	NP_001346644.1	XP_021331122.1	42.355	484	267	6	156	631
4443	NP_001346644.1	XP_021331122.1	42.137	496	282	5	115	609
4444	NP_001346644.1	XP_021331122.1	42.128	470	267	5	113	581
4445	NP_001346644.1	XP_021331122.1	48.263	259	133	1	354	612
4446	NP_001346644.1	XP_021331157.1	44.311	501	268	7	115	612
4447	NP_001346644.1	XP_021331157.1	45.295	457	244	6	156	612
4448	NP_001346644.1	XP_021331157.1	41.915	470	268	5	116	585
4449	NP_001346644.1	XP_021331157.1	44.316	431	227	8	208	631
4450	NP_001346644.1	XP_021331157.1	47.480	377	193	5	236	612
4451	NP_001346644.1	XP_021331157.1	35.887	248	156	3	113	360
4452	NP_001346644.1	XP_021331020.1	42.694	527	291	6	116	635
4453	NP_001346644.1	XP_021331020.1	40.868	553	290	6	113	631
4454	NP_001346644.1	XP_021331020.1	42.015	526	294	6	113	631
4455	NP_001346644.1	XP_021331020.1	40.754	557	293	6	113	635

4456	NP_001346644.1	XP_021331020.1	43.939	528	279	9	114	631
4457	NP_001346644.1	XP_021331020.1	43.327	517	282	6	123	631
4458	NP_001346644.1	XP_021331020.1	42.065	523	292	6	116	631
4459	NP_001346644.1	XP_021331020.1	41.874	523	293	6	116	631
4460	NP_001346644.1	XP_021331020.1	43.967	489	270	4	124	612
4461	NP_001346644.1	XP_021331020.1	42.015	526	294	6	113	631
4462	NP_001346644.1	XP_021331020.1	41.333	525	297	6	114	631
4463	NP_001346644.1	XP_021331020.1	40.290	551	292	5	115	631
4464	NP_001346644.1	XP_021331020.1	44.082	490	270	4	123	612
4465	NP_001346644.1	XP_021331020.1	41.603	524	276	4	116	612
4466	NP_001346644.1	XP_021331020.1	39.683	567	288	7	116	631
4467	NP_001346644.1	XP_021331020.1	42.600	500	281	5	115	612
4468	NP_001346644.1	XP_021331020.1	43.030	495	278	4	118	611
4469	NP_001346644.1	XP_021331020.1	39.818	550	317	8	89	631
4470	NP_001346644.1	XP_021331020.1	41.176	527	280	4	113	612
4471	NP_001346644.1	XP_021331020.1	40.720	528	302	6	115	635
4472	NP_001346644.1	XP_021331020.1	41.603	524	295	6	115	631
4473	NP_001346644.1	XP_021331020.1	40.226	532	305	7	113	635
4474	NP_001346644.1	XP_021331020.1	42.256	523	290	6	116	631
4475	NP_001346644.1	XP_021331020.1	41.143	525	295	6	116	631
4476	NP_001346644.1	XP_021331020.1	38.949	552	300	6	115	631
4477	NP_001346644.1	XP_021331020.1	40.414	532	304	7	113	635
4478	NP_001346644.1	XP_021331020.1	38.144	582	321	7	83	631
4479	NP_001346644.1	XP_021331020.1	43.260	497	278	4	116	612
4480	NP_001346644.1	XP_021331020.1	44.311	501	268	7	115	612
4481	NP_001346644.1	XP_021331020.1	41.524	525	277	6	113	612
4482	NP_001346644.1	XP_021331020.1	41.255	526	292	7	116	631
4483	NP_001346644.1	XP_021331020.1	42.052	497	284	4	116	612
4484	NP_001346644.1	XP_021331020.1	42.430	502	282	5	116	617
4485	NP_001346644.1	XP_021331020.1	41.366	527	298	6	116	635
4486	NP_001346644.1	XP_021331020.1	42.857	497	279	5	116	612
4487	NP_001346644.1	XP_021331020.1	41.683	499	287	4	114	612
4488	NP_001346644.1	XP_021331020.1	42.742	496	280	4	116	611
4489	NP_001346644.1	XP_021331020.1	40.000	550	294	7	114	631
4490	NP_001346644.1	XP_021331020.1	40.727	523	298	7	116	631
4491	NP_001346644.1	XP_021331020.1	39.850	532	294	6	123	631
4492	NP_001346644.1	XP_021331020.1	40.421	522	300	6	116	630
4493	NP_001346644.1	XP_021331020.1	40.364	550	287	8	116	631
4494	NP_001346644.1	XP_021331020.1	41.255	526	298	7	89	611
4495	NP_001346644.1	XP_021331020.1	40.777	515	293	7	124	631
4496	NP_001346644.1	XP_021331020.1	41.825	526	288	9	116	631
4497	NP_001346644.1	XP_021331020.1	42.166	517	287	7	123	632
4498	NP_001346644.1	XP_021331020.1	41.075	521	280	4	116	612

4499	NP_001346644.1	XP_021331020.1	40.845	497	290	4	116	612
4500	NP_001346644.1	XP_021331020.1	39.619	525	306	6	116	633
4501	NP_001346644.1	XP_021331020.1	39.234	548	298	6	115	631
4502	NP_001346644.1	XP_021331020.1	42.394	493	280	4	116	608
4503	NP_001346644.1	XP_021331020.1	42.283	473	263	6	115	584
4504	NP_001346644.1	XP_021331020.1	40.087	459	211	7	236	632
4505	NP_001346644.1	XP_021331020.1	35.636	275	174	3	113	387
4506	NP_001346644.1	XP_021331217.1	39.209	556	303	5	86	609
4507	NP_001346644.1	XP_021331217.1	44.760	458	247	5	156	612
4508	NP_001346644.1	XP_021331217.1	41.616	495	277	6	144	631
4509	NP_001346644.1	XP_021331217.1	26.415	106	67	2	85	186
4510	NP_001346644.1	XP_009299203.2	44.493	454	248	4	159	612
4511	NP_001346644.1	XP_009299203.2	46.744	430	225	4	156	585
4512	NP_001346644.1	XP_009299203.2	43.596	445	247	4	113	557
4513	NP_001346644.1	XP_009299203.2	44.848	330	174	3	309	631
4514	NP_001346644.1	XP_009299203.2	44.534	247	129	3	392	631
4515	NP_001346644.1	XP_009299203.2	41.327	196	108	2	443	631
4516	NP_001346644.1	XP_009299203.2	36.842	190	117	3	116	305
4517	NP_001346644.1	XP_009299203.2	34.146	123	66	3	516	631
4518	NP_001346644.1	XP_017209855.2	40.571	525	282	4	115	612
4519	NP_001346644.1	XP_017209855.2	42.262	504	278	7	136	631
4520	NP_001346644.1	XP_017209855.2	41.483	499	288	4	114	612
4521	NP_001346644.1	XP_017209855.2	41.734	496	285	4	116	611
4522	NP_001346644.1	XP_017209855.2	40.307	521	304	5	89	609
4523	NP_001346644.1	XP_017209855.2	41.943	453	233	4	187	612
4524	NP_001346644.1	XP_017209855.2	43.868	424	227	6	215	631
4525	NP_001346644.1	XP_017209855.2	35.294	51	33	0	136	186
4526	NP_001346644.1	XP_021328514.1	45.295	457	246	4	156	612
4527	NP_001346644.1	XP_021328514.1	44.565	460	244	6	179	631
4528	NP_001346644.1	XP_021328514.1	43.534	464	252	6	123	583
4529	NP_001346644.1	XP_021328514.1	43.379	438	244	4	118	555
4530	NP_001346644.1	XP_021328514.1	39.939	328	193	4	116	443
4531	NP_001346644.1	XP_021331206.1	45.154	454	245	4	158	611
4532	NP_001346644.1	XP_021331206.1	45.958	433	230	4	180	612
4533	NP_001346644.1	XP_021331206.1	41.564	486	280	4	124	609
4534	NP_001346644.1	XP_021331206.1	43.777	466	258	4	116	581
4535	NP_001346644.1	XP_021331206.1	30.986	71	49	0	116	186
4536	NP_001346644.1	XP_017211154.1	43.238	488	273	4	124	611
4537	NP_001346644.1	XP_017211154.1	46.189	433	229	4	180	612
4538	NP_001346644.1	XP_017211154.1	42.300	487	277	4	123	609
4539	NP_001346644.1	XP_017211154.1	44.316	431	229	5	208	631
4540	NP_001346644.1	XP_017211154.1	43.348	466	260	4	116	581
4541	NP_001346644.1	XP_017211154.1	32.394	71	48	0	116	186

4542	NP_001346644.1	XP_021328522.1	45.514	457	245	4	156	612
4543	NP_001346644.1	XP_021328522.1	44.828	435	229	6	208	635
4544	NP_001346644.1	XP_021328522.1	43.750	464	251	6	123	583
4545	NP_001346644.1	XP_021328522.1	44.064	438	241	4	118	555
4546	NP_001346644.1	XP_021328522.1	47.962	319	165	1	294	612
4547	NP_001346644.1	XP_021328522.1	40.244	328	192	4	116	443
4548	NP_001346644.1	XP_021328522.1	46.829	205	102	2	435	632
4549	NP_001346644.1	XP_021331104.1	41.509	530	299	6	113	635
4550	NP_001346644.1	XP_021331104.1	40.614	554	292	6	116	635
4551	NP_001346644.1	XP_021331104.1	41.683	523	294	6	116	631
4552	NP_001346644.1	XP_021331104.1	41.176	544	298	9	89	625
4553	NP_001346644.1	XP_021331104.1	42.147	503	285	4	113	612
4554	NP_001346644.1	XP_021331104.1	40.866	531	299	8	116	635
4555	NP_001346644.1	XP_021331104.1	42.065	523	292	6	116	631
4556	NP_001346644.1	XP_021331104.1	42.916	487	268	5	156	635
4557	NP_001346644.1	XP_021331104.1	42.308	520	282	8	124	631
4558	NP_001346644.1	XP_021331104.1	41.243	531	270	9	116	611
4559	NP_001346644.1	XP_021331225.1	45.695	453	242	4	159	611
4560	NP_001346644.1	XP_021331225.1	45.045	444	240	4	166	609
4561	NP_001346644.1	XP_021331225.1	43.805	452	243	5	187	631
4562	NP_001346644.1	XP_021331225.1	43.469	467	260	4	115	581
4563	NP_001346644.1	XP_021331225.1	41.927	384	219	4	114	497
4564	NP_001346644.1	XP_021331225.1	26.733	101	74	0	113	213
4565	NP_001346644.1	XP_021331225.1	25.510	98	70	1	89	186
4566	NP_001346644.1	XP_021331201.1	43.149	489	274	4	124	612
4567	NP_001346644.1	XP_021331201.1	40.805	522	279	4	118	612
4568	NP_001346644.1	XP_021331201.1	41.600	500	282	6	116	612
4569	NP_001346644.1	XP_021331201.1	40.417	527	303	6	116	635
4570	NP_001346644.1	XP_021331201.1	38.267	554	305	6	116	635
4571	NP_001346644.1	XP_021331201.1	40.241	497	293	4	116	612
4572	NP_001346644.1	XP_021331201.1	34.836	244	156	3	115	358
4573	NP_001346644.1	XP_021328499.1	45.295	457	246	4	156	612
4574	NP_001346644.1	XP_021328499.1	42.942	503	274	7	116	612
4575	NP_001346644.1	XP_021328499.1	41.825	526	286	9	123	635
4576	NP_001346644.1	XP_021331047.1	41.892	518	271	5	116	606
4577	NP_001346644.1	XP_021331047.1	42.254	497	279	5	116	612
4578	NP_001346644.1	XP_021331047.1	43.284	469	254	6	114	578
4579	NP_001346644.1	XP_021331047.1	49.785	233	116	1	379	611
4580	NP_001346644.1	XP_021331047.1	31.496	127	83	1	113	235
4581	NP_001346644.1	XP_021330543.1	43.107	515	282	5	124	631
4582	NP_001346644.1	XP_021330543.1	40.909	528	300	6	112	631
4583	NP_001346644.1	XP_021330543.1	42.137	496	283	4	116	611
4584	NP_001346644.1	XP_021330543.1	42.713	494	279	4	116	609

4585	NP_001346644.1	XP_021330543.1	42.418	488	277	4	123	610
4586	NP_001346644.1	XP_021330543.1	40.777	515	291	8	126	631
4587	NP_001346644.1	XP_021330543.1	27.451	102	74	0	114	215
4588	NP_001346644.1	XP_021328513.1	44.306	483	257	7	156	631
4589	NP_001346644.1	XP_021328513.1	44.708	463	246	6	179	635
4590	NP_001346644.1	XP_021328513.1	42.799	493	271	7	123	612
4591	NP_001346644.1	XP_021328513.1	43.777	466	257	5	118	583
4592	NP_001346644.1	XP_021328513.1	43.115	443	241	7	116	555
4593	NP_001346644.1	XP_021331164.1	39.818	550	294	5	116	631
4594	NP_001346644.1	XP_021331164.1	41.683	523	294	6	116	631
4595	NP_001346644.1	XP_021331164.1	40.535	523	281	4	116	611
4596	NP_001346644.1	XP_021331164.1	41.449	497	287	4	116	612
4597	NP_001346644.1	XP_021331164.1	41.426	519	287	8	123	631
4598	NP_001346644.1	XP_021331164.1	42.340	470	267	4	116	585
4599	NP_001346644.1	XP_021331164.1	40.048	417	246	4	113	529
4600	NP_001346644.1	XP_021331164.1	33.679	193	125	3	113	305
4601	NP_001346644.1	XP_021331184.1	42.596	493	279	4	115	607
4602	NP_001346644.1	XP_021331184.1	44.201	457	251	4	156	612
4603	NP_001346644.1	XP_021331184.1	45.190	447	241	4	166	612
4604	NP_001346644.1	XP_021331184.1	44.196	448	239	6	191	631
4605	NP_001346644.1	XP_021331184.1	43.897	426	228	6	217	635
4606	NP_001346644.1	XP_021331184.1	30.894	123	85	0	113	235
4607	NP_001346644.1	XP_021331401.1	42.912	522	287	6	118	632
4608	NP_001346644.1	XP_021331401.1	43.470	513	281	6	124	636
4609	NP_001346644.1	XP_021331401.1	43.023	516	283	6	123	631
4610	NP_001346644.1	XP_021331401.1	43.461	497	277	4	116	612
4611	NP_001346644.1	XP_021331401.1	42.205	526	293	6	114	632
4612	NP_001346644.1	XP_021331401.1	42.447	523	289	7	116	631
4613	NP_001346644.1	XP_021331401.1	43.000	500	281	4	115	614
4614	NP_001346644.1	XP_021331401.1	39.100	578	289	6	115	631
4615	NP_001346644.1	XP_021331401.1	41.985	524	291	8	115	631
4616	NP_001346644.1	XP_021331401.1	43.724	478	237	5	163	612
4617	NP_001346644.1	XP_021331401.1	39.201	551	275	6	118	612
4618	NP_001346644.1	XP_021331401.1	41.176	527	280	4	113	612
4619	NP_001346644.1	XP_021331401.1	42.105	475	238	6	192	632
4620	NP_001346644.1	XP_021331401.1	42.675	471	266	4	115	585
4621	NP_001346644.1	XP_021331401.1	47.181	337	170	2	302	631
4622	NP_001346644.1	XP_021331401.1	28.685	251	147	5	82	305
4623	NP_001346644.1	XP_017211885.2	43.927	494	273	4	118	611
4624	NP_001346644.1	XP_017211885.2	40.797	527	280	5	114	612
4625	NP_001346644.1	XP_017211885.2	41.822	483	270	5	156	631
4626	NP_001346644.1	XP_017211885.2	41.718	489	281	4	124	612
4627	NP_001346644.1	XP_017211885.2	40.000	525	304	6	114	631

4628	NP_001346644.1	XP_017211885.2	37.262	577	297	6	117	631
4629	NP_001346644.1	XP_017211885.2	46.373	386	200	4	231	612
4630	NP_001346644.1	XP_017211885.2	43.503	354	188	4	289	631
4631	NP_001346644.1	XP_017211885.2	42.073	164	91	1	455	614
4632	NP_001346644.1	XP_017211885.2	33.133	166	109	2	115	280
4633	NP_001346644.1	XP_021328503.1	44.828	464	245	6	179	635
4634	NP_001346644.1	XP_021328503.1	43.002	493	271	6	123	612
4635	NP_001346644.1	XP_021328503.1	40.449	356	208	4	116	471
4636	NP_001346644.1	XP_021331498.1	41.016	551	311	8	88	631
4637	NP_001346644.1	XP_021331498.1	40.607	527	300	6	115	635
4638	NP_001346644.1	XP_021331498.1	41.767	498	286	4	115	612
4639	NP_001346644.1	XP_021331498.1	41.566	498	287	4	115	612
4640	NP_001346644.1	XP_021331498.1	42.052	497	284	4	115	611
4641	NP_001346644.1	XP_021331498.1	40.840	524	280	4	115	611
4642	NP_001346644.1	XP_021331498.1	42.259	478	272	4	135	612
4643	NP_001346644.1	XP_021331498.1	42.942	503	280	6	115	617
4644	NP_001346644.1	XP_021331498.1	41.449	497	287	4	115	611
4645	NP_001346644.1	XP_021331498.1	39.960	498	295	4	115	612
4646	NP_001346644.1	XP_021331498.1	39.655	522	306	5	115	636
4647	NP_001346644.1	XP_021331498.1	43.132	364	198	3	275	631
4648	NP_001346644.1	XP_021331498.1	38.406	276	160	7	114	386
4649	NP_001346644.1	XP_005157357.4	43.064	483	264	6	156	631
4650	NP_001346644.1	XP_005157357.4	41.650	497	286	4	116	612
4651	NP_001346644.1	XP_005157357.4	39.636	550	295	6	116	631
4652	NP_001346644.1	XP_005157357.4	43.340	473	257	6	166	631
4653	NP_001346644.1	XP_005157357.4	40.649	524	300	6	115	631
4654	NP_001346644.1	XP_005157357.4	42.424	462	262	4	124	585
4655	NP_001346644.1	XP_005157357.4	45.504	367	197	3	246	612
4656	NP_001346644.1	XP_005157357.4	44.776	335	177	3	304	631
4657	NP_001346644.1	XP_005157357.4	35.628	247	156	3	114	360
4658	NP_001346644.1	XP_005157357.4	33.679	193	125	3	113	305
4659	NP_001346644.1	XP_021331332.1	41.935	527	295	6	116	635
4660	NP_001346644.1	XP_021331332.1	41.634	514	290	5	115	622
4661	NP_001346644.1	XP_021331332.1	41.985	524	293	5	115	631
4662	NP_001346644.1	XP_021331332.1	41.860	516	289	6	123	631
4663	NP_001346644.1	XP_021331332.1	40.608	559	289	9	114	635
4664	NP_001346644.1	XP_021331332.1	41.393	517	272	6	123	612
4665	NP_001346644.1	XP_021331332.1	39.674	552	294	8	115	631
4666	NP_001346644.1	XP_021331332.1	44.469	461	245	6	179	632
4667	NP_001346644.1	XP_021331332.1	40.115	521	281	5	118	611
4668	NP_001346644.1	XP_021331332.1	44.060	463	254	5	123	585
4669	NP_001346644.1	XP_021331332.1	43.959	389	207	7	116	501
4670	NP_001346644.1	XP_021331332.1	41.259	143	81	3	163	305

4671	NP_001346644.1	XP_021331332.1	28.571	105	75	0	113	217
4672	NP_001346644.1	XP_021331199.1	42.775	519	280	8	123	631
4673	NP_001346644.1	XP_021331199.1	45.161	465	234	6	180	632
4674	NP_001346644.1	XP_021331199.1	43.028	502	276	6	116	614
4675	NP_001346644.1	XP_021331199.1	43.243	518	277	8	124	631
4676	NP_001346644.1	XP_021331199.1	40.996	522	279	4	116	611
4677	NP_001346644.1	XP_021331199.1	41.683	523	293	7	116	631
4678	NP_001346644.1	XP_021331199.1	42.176	524	265	8	116	609
4679	NP_001346644.1	XP_021331199.1	40.883	521	276	6	118	611
4680	NP_001346644.1	XP_021331199.1	41.212	330	183	7	115	441
4681	NP_001346644.1	XP_021331199.1	27.027	74	54	0	113	186
4682	NP_001346644.1	XP_021331405.1	41.255	526	298	6	113	631
4683	NP_001346644.1	XP_021331405.1	41.109	523	297	6	116	631
4684	NP_001346644.1	XP_021331405.1	41.279	516	292	6	123	631
4685	NP_001346644.1	XP_021331405.1	42.455	497	281	5	115	611
4686	NP_001346644.1	XP_021331405.1	44.828	435	236	4	178	612
4687	NP_001346644.1	XP_021331405.1	42.915	494	276	6	116	609
4688	NP_001346644.1	XP_021331405.1	42.339	496	280	6	116	611
4689	NP_001346644.1	XP_021331405.1	27.027	74	54	0	113	186
4690	NP_001346644.1	XP_021328508.1	44.828	464	245	6	179	635
4691	NP_001346644.1	XP_021328508.1	42.799	493	272	6	123	612
4692	NP_001346644.1	XP_021328508.1	39.888	356	210	4	116	471
4693	NP_001346644.1	XP_021330715.1	43.461	497	277	4	116	612
4694	NP_001346644.1	XP_021330715.1	41.603	524	295	6	115	631
4695	NP_001346644.1	XP_021330715.1	42.639	523	289	6	116	631
4696	NP_001346644.1	XP_021330715.1	42.972	498	280	4	114	611
4697	NP_001346644.1	XP_021330715.1	43.711	485	262	5	154	631
4698	NP_001346644.1	XP_021330715.1	41.699	518	291	6	120	630
4699	NP_001346644.1	XP_021330715.1	42.065	523	272	5	116	611
4700	NP_001346644.1	XP_021330715.1	42.653	490	277	4	123	612
4701	NP_001346644.1	XP_021330715.1	41.571	522	298	5	91	612
4702	NP_001346644.1	XP_021330715.1	43.260	497	277	5	113	609
4703	NP_001346644.1	XP_021330715.1	40.000	525	304	6	114	631
4704	NP_001346644.1	XP_021330715.1	41.109	523	297	6	116	631
4705	NP_001346644.1	XP_021330715.1	40.535	523	300	6	116	631
4706	NP_001346644.1	XP_021330715.1	40.535	523	300	6	116	631
4707	NP_001346644.1	XP_021330715.1	41.366	527	292	8	115	631
4708	NP_001346644.1	XP_021330715.1	40.153	523	282	5	116	611
4709	NP_001346644.1	XP_021330715.1	47.222	288	151	1	324	611
4710	NP_001346644.1	XP_021331198.1	43.967	489	270	4	124	612
4711	NP_001346644.1	XP_021331198.1	39.564	551	294	7	116	631
4712	NP_001346644.1	XP_021331198.1	42.650	483	266	6	156	631
4713	NP_001346644.1	XP_021331198.1	43.558	489	272	4	124	612

4714	NP_001346644.1	XP_021331198.1	44.858	457	248	4	156	612
4715	NP_001346644.1	XP_021331198.1	42.191	493	281	4	113	605
4716	NP_001346644.1	XP_021331198.1	38.302	577	293	6	116	631
4717	NP_001346644.1	XP_021331198.1	40.918	523	298	6	116	631
4718	NP_001346644.1	XP_021331198.1	46.341	369	195	3	244	612
4719	NP_001346644.1	XP_017211012.2	42.455	497	282	4	116	612
4720	NP_001346644.1	XP_017211012.2	42.366	524	291	6	115	631
4721	NP_001346644.1	XP_017211012.2	40.761	552	290	6	114	631
4722	NP_001346644.1	XP_017211012.2	41.491	523	291	6	116	631
4723	NP_001346644.1	XP_017211012.2	42.685	499	282	4	114	612
4724	NP_001346644.1	XP_017211012.2	39.630	540	272	6	124	612
4725	NP_001346644.1	XP_017211012.2	40.351	513	272	4	124	609
4726	NP_001346644.1	XP_017211012.2	45.921	429	221	6	210	631
4727	NP_001346644.1	XP_017211012.2	32.903	155	102	2	117	271
4728	NP_001346644.1	XP_017211012.2	29.921	127	88	1	116	242
4729	NP_001346644.1	XP_017211215.2	40.975	554	290	6	113	632
4730	NP_001346644.1	XP_017211215.2	43.461	497	277	4	116	612
4731	NP_001346644.1	XP_017211215.2	41.651	533	288	7	114	632
4732	NP_001346644.1	XP_017211215.2	42.197	519	287	7	123	632
4733	NP_001346644.1	XP_017211215.2	40.190	525	299	6	116	631
4734	NP_001346644.1	XP_017211215.2	41.449	497	287	4	116	612
4735	NP_001346644.1	XP_017211215.2	42.887	478	269	4	135	612
4736	NP_001346644.1	XP_017211215.2	42.286	525	290	7	116	631
4737	NP_001346644.1	XP_017211215.2	40.072	559	284	7	116	632
4738	NP_001346644.1	XP_017211215.2	41.093	494	287	4	116	609
4739	NP_001346644.1	XP_017211215.2	33.610	241	157	3	115	355
4740	NP_001346644.1	XP_017211215.2	24.752	101	76	0	113	213
4741	NP_001346644.1	XP_017211215.2	28.169	71	51	0	116	186
4742	NP_001346644.1	XP_021331105.1	43.200	500	279	5	113	611
4743	NP_001346644.1	XP_021331105.1	40.840	524	299	5	115	631
4744	NP_001346644.1	XP_021331105.1	39.606	558	288	7	114	631
4745	NP_001346644.1	XP_021331105.1	42.240	509	270	7	124	612
4746	NP_001346644.1	XP_021331105.1	42.073	492	273	7	148	631
4747	NP_001346644.1	XP_021331105.1	44.850	466	245	7	174	631
4748	NP_001346644.1	XP_021331105.1	38.809	554	301	6	113	631
4749	NP_001346644.1	XP_021331105.1	40.987	527	299	7	113	631
4750	NP_001346644.1	XP_021331105.1	40.267	524	284	3	116	612
4751	NP_001346644.1	XP_021331105.1	41.634	514	276	7	118	611
4752	NP_001346644.1	XP_021331105.1	42.137	496	280	6	118	610
4753	NP_001346644.1	XP_021331105.1	42.706	473	264	6	113	582
4754	NP_001346644.1	XP_021331105.1	40.456	482	230	8	208	635
4755	NP_001346644.1	XP_021327006.1	43.421	456	254	4	156	611
4756	NP_001346644.1	XP_021327006.1	42.637	455	257	4	135	589

4757	NP_001346644.1	XP_021327006.1	42.757	428	234	6	211	631
4758	NP_001346644.1	XP_021327006.1	39.474	418	249	4	116	533
4759	NP_001346644.1	XP_021331282.1	41.603	524	295	6	115	631
4760	NP_001346644.1	XP_021331282.1	43.532	487	271	4	123	609
4761	NP_001346644.1	XP_021331282.1	42.650	483	266	6	156	631
4762	NP_001346644.1	XP_021331282.1	47.018	285	143	3	354	631
4763	NP_001346644.1	XP_021331223.1	44.259	479	263	4	134	612
4764	NP_001346644.1	XP_021331223.1	43.827	486	269	4	115	600
4765	NP_001346644.1	XP_021331223.1	43.421	456	247	6	187	635
4766	NP_001346644.1	XP_021331223.1	39.200	375	224	4	114	488
4767	NP_001346644.1	XP_021326773.1	43.524	471	255	6	166	629
4768	NP_001346644.1	XP_021326773.1	43.709	453	251	4	156	608
4769	NP_001346644.1	XP_021326773.1	42.984	449	245	6	191	632
4770	NP_001346644.1	XP_021326773.1	42.184	467	266	4	114	580
4771	NP_001346644.1	XP_021326773.1	45.075	335	176	3	305	632
4772	NP_001346644.1	XP_021326773.1	40.625	384	224	4	113	496
4773	NP_001346644.1	XP_017210364.1	43.232	495	276	5	118	611
4774	NP_001346644.1	XP_017210364.1	37.674	430	261	6	98	527
4775	NP_001346644.1	XP_017210364.1	42.353	340	188	3	299	631
4776	NP_001346644.1	XP_021331158.1	45.514	457	244	5	156	612
4777	NP_001346644.1	XP_021331158.1	44.086	465	256	4	148	612
4778	NP_001346644.1	XP_021331158.1	43.460	474	258	6	115	585
4779	NP_001346644.1	XP_021331158.1	46.154	403	206	6	236	631
4780	NP_001346644.1	XP_021331158.1	37.184	277	171	3	113	389
4781	NP_001346644.1	XP_021331106.1	41.825	526	295	6	113	631
4782	NP_001346644.1	XP_021331106.1	43.452	504	275	5	115	612
4783	NP_001346644.1	XP_021331106.1	42.256	523	291	6	116	631
4784	NP_001346644.1	XP_021331106.1	41.851	497	285	4	116	612
4785	NP_001346644.1	XP_021331106.1	42.650	483	266	6	156	631
4786	NP_001346644.1	XP_021331106.1	44.000	500	270	5	116	609
4787	NP_001346644.1	XP_021331106.1	40.805	522	298	6	116	630
4788	NP_001346644.1	XP_021331106.1	44.931	434	235	4	179	612
4789	NP_001346644.1	XP_021331106.1	39.116	588	279	10	116	631
4790	NP_001346644.1	XP_021331106.1	39.535	516	301	5	123	631
4791	NP_001346644.1	XP_021331106.1	44.378	498	261	7	124	612
4792	NP_001346644.1	XP_021331127.1	40.812	517	276	4	123	612
4793	NP_001346644.1	XP_021331127.1	41.650	497	286	4	116	612
4794	NP_001346644.1	XP_021331127.1	39.313	524	288	4	116	612
4795	NP_001346644.1	XP_021331127.1	42.161	472	269	4	116	587
4796	NP_001346644.1	XP_021331127.1	40.409	391	229	4	113	503
4797	NP_001346644.1	XP_021331127.1	38.398	362	219	4	116	477
4798	NP_001346644.1	XP_021331127.1	31.636	275	182	4	88	362
4799	NP_001346644.1	XP_021331440.1	44.072	447	245	5	179	625

4800	NP_001346644.1	XP_021331440.1	44.626	428	233	4	123	550
4801	NP_001346644.1	XP_021331440.1	46.154	403	207	5	236	631
4802	NP_001346644.1	XP_021331440.1	41.404	413	232	6	113	522
4803	NP_001346644.1	XP_021331440.1	35.135	185	117	3	116	300
4804	NP_001346644.1	XP_021331156.1	43.461	497	276	5	115	611
4805	NP_001346644.1	XP_021331156.1	41.652	557	282	8	116	635
4806	NP_001346644.1	XP_021331156.1	43.260	497	277	5	115	611
4807	NP_001346644.1	XP_021331156.1	39.493	552	296	7	114	631
4808	NP_001346644.1	XP_021331156.1	42.656	497	280	5	116	612
4809	NP_001346644.1	XP_021331156.1	41.765	510	292	5	116	625
4810	NP_001346644.1	XP_021331156.1	40.727	523	298	7	116	631
4811	NP_001346644.1	XP_021331156.1	41.300	523	295	7	116	631
4812	NP_001346644.1	XP_021331156.1	41.359	515	291	5	124	631
4813	NP_001346644.1	XP_021331156.1	43.177	491	268	6	148	631
4814	NP_001346644.1	XP_021331156.1	42.763	456	257	4	156	611
4815	NP_001346644.1	XP_021331156.1	39.504	524	305	7	115	631
4816	NP_001346644.1	XP_021331156.1	41.856	528	269	8	116	612
4817	NP_001346644.1	XP_021331156.1	41.141	491	277	7	148	631
4818	NP_001346644.1	XP_021331156.1	42.117	463	262	6	124	585
4819	NP_001346644.1	XP_021331156.1	41.346	312	170	4	319	627
4820	NP_001346644.1	XP_021331156.1	36.462	277	172	4	113	388
4821	NP_001346644.1	XP_021332374.1	42.146	522	270	6	118	611
4822	NP_001346644.1	XP_021332374.1	41.622	555	263	7	115	612
4823	NP_001346644.1	XP_021332374.1	41.683	511	259	6	156	631
4824	NP_001346644.1	XP_021332374.1	40.607	527	281	5	114	612
4825	NP_001346644.1	XP_021332374.1	41.922	489	280	4	124	612
4826	NP_001346644.1	XP_021332374.1	39.241	553	297	7	114	631
4827	NP_001346644.1	XP_021332374.1	37.955	577	293	6	117	631
4828	NP_001346644.1	XP_021332374.1	44.638	401	218	4	212	612
4829	NP_001346644.1	XP_021332374.1	41.842	380	208	5	263	631
4830	NP_001346644.1	XP_021332374.1	41.196	301	146	2	342	611
4831	NP_001346644.1	XP_021332374.1	42.073	164	91	1	455	614
4832	NP_001346644.1	XP_021332374.1	33.133	166	109	2	115	280
4833	NP_001346644.1	XP_021331165.1	42.363	491	275	5	123	611
4834	NP_001346644.1	XP_021331165.1	42.800	500	275	7	116	611
4835	NP_001346644.1	XP_021331165.1	39.818	550	291	7	118	631
4836	NP_001346644.1	XP_021331165.1	41.000	500	290	5	114	612
4837	NP_001346644.1	XP_021331165.1	40.230	522	300	6	118	631
4838	NP_001346644.1	XP_021331165.1	39.205	528	309	7	116	635
4839	NP_001346644.1	XP_021331165.1	38.447	528	313	7	116	635
4840	NP_001346644.1	XP_021331165.1	43.619	431	230	7	209	631
4841	NP_001346644.1	XP_021331165.1	43.200	375	202	5	265	631
4842	NP_001346644.1	XP_021331165.1	28.689	122	87	0	114	235

4843	NP_001346644.1	XP_021331165.1	26.733	101	74	0	113	213
4844	NP_001346644.1	XP_021331165.1	25.510	98	70	1	89	186
4845	NP_001346644.1	XP_021331233.1	44.240	434	238	4	179	612
4846	NP_001346644.1	XP_021331233.1	44.884	430	233	4	156	585
4847	NP_001346644.1	XP_021331233.1	42.759	435	245	4	123	557
4848	NP_001346644.1	XP_021331233.1	40.782	358	208	4	116	473
4849	NP_001346644.1	XP_021331233.1	35.887	248	156	3	113	360
4850	NP_001346644.1	XP_021331233.1	35.789	190	119	3	116	305
4851	NP_001346644.1	XP_021331407.1	41.188	522	298	6	115	631
4852	NP_001346644.1	XP_021331407.1	41.304	506	281	7	115	615
4853	NP_001346644.1	XP_021331407.1	39.564	551	296	8	114	631
4854	NP_001346644.1	XP_021331407.1	37.681	552	286	6	115	612
4855	NP_001346644.1	XP_021331407.1	42.049	371	182	3	273	612
4856	NP_001346644.1	XP_021331407.1	50.000	196	91	1	443	631
4857	NP_001346644.1	XP_021331014.1	43.764	457	252	5	156	612
4858	NP_001346644.1	XP_021331014.1	44.884	430	232	5	156	585
4859	NP_001346644.1	XP_021331014.1	42.195	410	232	5	120	529
4860	NP_001346644.1	XP_021331014.1	37.500	248	145	6	116	360
4861	NP_001346644.1	XP_021326473.1	43.681	451	250	4	159	609
4862	NP_001346644.1	XP_021326473.1	46.009	426	226	4	156	581
4863	NP_001346644.1	XP_021326473.1	43.458	428	238	4	184	611
4864	NP_001346644.1	XP_021326473.1	45.137	401	216	4	212	612
4865	NP_001346644.1	XP_021326473.1	40.363	441	259	4	113	553
4866	NP_001346644.1	XP_021326473.1	47.490	259	135	1	354	612
4867	NP_001346644.1	XP_021326473.1	33.333	63	42	0	124	186
4868	NP_001346644.1	XP_021331293.1	46.988	415	216	4	180	594
4869	NP_001346644.1	XP_021331293.1	46.192	407	215	4	208	614
4870	NP_001346644.1	XP_021331293.1	44.169	403	222	3	238	640
4871	NP_001346644.1	XP_021331293.1	43.237	414	231	4	124	537
4872	NP_001346644.1	XP_021331293.1	40.609	394	230	4	116	509
4873	NP_001346644.1	XP_021331293.1	36.842	285	177	3	113	397
4874	NP_001346644.1	XP_021328589.1	43.260	497	278	4	115	611
4875	NP_001346644.1	XP_021328589.1	41.650	497	286	4	116	612
4876	NP_001346644.1	XP_021328589.1	42.412	481	269	5	156	636
4877	NP_001346644.1	XP_021328589.1	45.263	285	148	2	354	631
4878	NP_001346644.1	XP_021328589.1	38.141	312	188	5	114	425
4879	NP_001346644.1	XP_021331304.1	49.500	400	198	4	209	608
4880	NP_001346644.1	XP_021331304.1	48.011	377	193	3	236	612
4881	NP_001346644.1	XP_021331304.1	45.989	374	193	4	265	631
4882	NP_001346644.1	XP_021331304.1	44.279	402	220	4	123	524
4883	NP_001346644.1	XP_021331304.1	42.408	382	216	4	115	496
4884	NP_001346644.1	XP_021331304.1	39.108	381	225	6	88	468
4885	NP_001346644.1	XP_021331294.1	45.991	424	219	5	208	625

4886	NP_001346644.1	XP_021331294.1	45.387	401	209	5	238	631
4887	NP_001346644.1	XP_021331294.1	42.959	419	235	4	124	542
4888	NP_001346644.1	XP_021331294.1	41.147	401	232	4	116	516
4889	NP_001346644.1	XP_021331294.1	38.062	289	176	3	113	401
4890	NP_001346644.1	XP_021331195.1	42.800	500	276	6	116	612
4891	NP_001346644.1	XP_021331195.1	41.132	530	292	8	118	631
4892	NP_001346644.1	XP_021331195.1	40.108	556	286	8	116	631
4893	NP_001346644.1	XP_021331195.1	40.698	516	295	5	123	631
4894	NP_001346644.1	XP_021331195.1	39.734	526	287	4	114	612
4895	NP_001346644.1	XP_021331195.1	41.968	498	285	4	114	611
4896	NP_001346644.1	XP_021331195.1	41.176	493	286	4	120	612
4897	NP_001346644.1	XP_021331195.1	41.800	500	281	6	115	611
4898	NP_001346644.1	XP_021331195.1	41.449	497	287	4	116	611
4899	NP_001346644.1	XP_021331195.1	40.190	525	280	5	118	612
4900	NP_001346644.1	XP_021331195.1	39.205	528	289	5	113	612
4901	NP_001346644.1	XP_021331195.1	38.388	521	287	7	116	609
4902	NP_001346644.1	XP_021331195.1	34.579	321	183	4	118	414
4903	NP_001346644.1	XP_021331195.1	25.874	143	105	1	101	243
4904	NP_001346644.1	XP_021331400.1	41.966	529	296	6	114	635
4905	NP_001346644.1	XP_021331400.1	43.629	518	275	8	124	631
4906	NP_001346644.1	XP_021331400.1	39.241	553	299	6	113	631
4907	NP_001346644.1	XP_021331400.1	43.232	495	277	4	118	612
4908	NP_001346644.1	XP_021331400.1	41.586	517	272	4	123	612
4909	NP_001346644.1	XP_021331400.1	39.273	550	297	6	116	631
4910	NP_001346644.1	XP_021331400.1	40.189	530	306	6	113	635
4911	NP_001346644.1	XP_021331400.1	38.899	563	301	7	113	635
4912	NP_001346644.1	XP_021331400.1	40.832	529	277	4	116	611
4913	NP_001346644.1	XP_021331400.1	40.832	529	296	7	116	631
4914	NP_001346644.1	XP_021331400.1	40.535	523	300	6	116	631
4915	NP_001346644.1	XP_021331400.1	41.903	494	277	6	118	608
4916	NP_001346644.1	XP_021331400.1	39.850	532	284	4	114	612
4917	NP_001346644.1	XP_021331400.1	44.965	427	230	5	187	612
4918	NP_001346644.1	XP_021331400.1	45.135	370	195	3	273	635
4919	NP_001346644.1	XP_021331400.1	32.000	150	101	1	113	262
4920	NP_001346644.1	XP_009298780.3	45.215	418	225	4	158	575
4921	NP_001346644.1	XP_009298780.3	45.411	414	216	5	215	622
4922	NP_001346644.1	XP_009298780.3	44.365	417	228	4	187	603
4923	NP_001346644.1	XP_009298780.3	44.068	413	227	4	135	547
4924	NP_001346644.1	XP_009298780.3	46.883	369	193	3	243	611
4925	NP_001346644.1	XP_009298780.3	45.723	339	176	3	301	632
4926	NP_001346644.1	XP_009298780.3	40.347	404	237	4	116	519
4927	NP_001346644.1	XP_009298780.3	35.338	266	169	3	113	378
4928	NP_001346644.1	XP_021330825.1	39.332	539	260	8	156	631

4929	NP_001346644.1	XP_021330825.1	39.197	523	286	7	118	612
4930	NP_001346644.1	XP_021330825.1	38.727	550	298	9	116	630
4931	NP_001346644.1	XP_021330825.1	38.476	525	285	9	116	609
4932	NP_001346644.1	XP_021330825.1	38.624	378	194	7	294	635
4933	NP_001346644.1	XP_021330825.1	39.755	327	193	4	115	441
4934	NP_001346644.1	XP_021330825.1	38.225	293	178	3	114	406
4935	NP_001346644.1	XP_021331209.1	43.852	431	238	4	179	609
4936	NP_001346644.1	XP_021331209.1	46.040	404	214	4	208	611
4937	NP_001346644.1	XP_021331209.1	47.215	377	196	3	236	612
4938	NP_001346644.1	XP_021331209.1	41.531	431	248	4	123	553
4939	NP_001346644.1	XP_021331209.1	39.952	413	244	4	113	525
4940	NP_001346644.1	XP_021331209.1	30.986	71	49	0	116	186
4941	NP_001346644.1	XP_017209852.2	44.754	467	230	7	144	591
4942	NP_001346644.1	XP_017209852.2	45.270	444	216	6	187	611
4943	NP_001346644.1	XP_017209852.2	42.326	430	227	4	124	535
4944	NP_001346644.1	XP_017209852.2	41.644	365	200	5	115	479
4945	NP_001346644.1	XP_017209852.2	41.573	356	177	5	302	631
4946	NP_001346644.1	XP_017209852.2	38.462	364	208	6	88	451
4947	NP_001346644.1	XP_017209852.2	41.812	287	136	2	348	611
4948	NP_001346644.1	XP_021330576.1	42.656	497	281	4	115	611
4949	NP_001346644.1	XP_021330576.1	40.109	551	287	7	118	631
4950	NP_001346644.1	XP_021330576.1	42.052	497	284	4	116	612
4951	NP_001346644.1	XP_021330576.1	43.400	500	273	6	116	612
4952	NP_001346644.1	XP_021330576.1	42.647	476	262	5	163	631
4953	NP_001346644.1	XP_021330576.1	40.072	554	292	9	115	633
4954	NP_001346644.1	XP_021330576.1	42.828	488	275	4	124	611
4955	NP_001346644.1	XP_021330576.1	41.200	500	289	5	113	612
4956	NP_001346644.1	XP_021330576.1	39.845	517	303	5	120	636
4957	NP_001346644.1	XP_021330576.1	42.094	487	278	4	123	609
4958	NP_001346644.1	XP_021330576.1	41.767	498	280	6	118	612
4959	NP_001346644.1	XP_021330576.1	40.080	499	295	4	113	611
4960	NP_001346644.1	XP_021330576.1	40.404	495	291	4	118	612
4961	NP_001346644.1	XP_021330576.1	40.000	490	290	4	123	612
4962	NP_001346644.1	XP_021330576.1	42.644	469	259	6	116	581
4963	NP_001346644.1	XP_021330576.1	41.748	412	236	4	114	525
4964	NP_001346644.1	XP_021330576.1	39.949	393	200	5	273	631
4965	NP_001346644.1	XP_021330576.1	34.043	188	121	3	113	300
4966	NP_001346644.1	XP_021330576.1	28.169	71	51	0	116	186
4967	NP_001346644.1	XP_021331301.1	46.173	405	214	4	208	612
4968	NP_001346644.1	XP_021331301.1	45.658	403	209	5	236	631
4969	NP_001346644.1	XP_021331301.1	41.975	405	231	4	123	527
4970	NP_001346644.1	XP_021331301.1	41.753	388	216	6	116	500
4971	NP_001346644.1	XP_021331301.1	27.184	103	75	0	113	215

4972	NP_001346644.1	XP_017210844.2	45.107	419	225	5	191	608
4973	NP_001346644.1	XP_017210844.2	44.712	416	225	5	166	580
4974	NP_001346644.1	XP_017210844.2	45.477	398	212	5	156	552
4975	NP_001346644.1	XP_017210844.2	45.570	395	210	5	219	612
4976	NP_001346644.1	XP_017210844.2	42.336	411	232	5	115	524
4977	NP_001346644.1	XP_017210844.2	40.426	329	191	5	113	440
4978	NP_001346644.1	XP_017210844.2	25.581	86	64	0	113	198
4979	NP_001346644.1	XP_021331232.1	45.432	405	217	4	208	612
4980	NP_001346644.1	XP_021331232.1	45.455	407	218	4	179	585
4981	NP_001346644.1	XP_021331232.1	45.522	402	215	4	156	557
4982	NP_001346644.1	XP_021331232.1	45.067	375	197	4	265	632
4983	NP_001346644.1	XP_021331232.1	42.015	407	232	4	123	529
4984	NP_001346644.1	XP_021331232.1	40.782	358	208	4	116	473
4985	NP_001346644.1	XP_021331232.1	35.887	248	156	3	113	360
4986	NP_001346644.1	XP_021331232.1	37.306	193	112	5	116	305
4987	NP_001346644.1	XP_021331422.1	43.750	432	239	4	178	609
4988	NP_001346644.1	XP_021331422.1	44.198	405	222	4	208	612
4989	NP_001346644.1	XP_021331422.1	45.522	402	209	5	236	630
4990	NP_001346644.1	XP_021331422.1	44.652	374	198	4	265	631
4991	NP_001346644.1	XP_021331422.1	40.603	431	252	4	123	553
4992	NP_001346644.1	XP_021331422.1	39.155	355	212	4	115	469
4993	NP_001346644.1	XP_021331422.1	38.415	328	198	4	114	441
4994	NP_001346644.1	XP_021331421.1	43.318	434	242	4	179	612
4995	NP_001346644.1	XP_021331421.1	43.721	430	238	4	156	585
4996	NP_001346644.1	XP_021331421.1	40.460	435	255	4	123	557
4997	NP_001346644.1	XP_021331421.1	44.000	375	201	4	265	632
4998	NP_001346644.1	XP_021331421.1	39.614	414	246	4	116	529
4999	NP_001346644.1	XP_021331421.1	34.896	192	122	3	114	305
5000	NP_001346644.1	XP_021331366.1	45.107	419	225	5	191	608
5001	NP_001346644.1	XP_021331366.1	44.231	416	227	5	166	580
5002	NP_001346644.1	XP_021331366.1	45.823	395	209	5	219	612
5003	NP_001346644.1	XP_021331366.1	44.975	398	214	5	156	552
5004	NP_001346644.1	XP_021331366.1	42.336	411	232	5	115	524
5005	NP_001346644.1	XP_021331366.1	42.857	392	186	6	276	631
5006	NP_001346644.1	XP_021331366.1	39.216	357	212	5	113	468
5007	NP_001346644.1	XP_021331366.1	25.581	86	64	0	113	198
5008	NP_001346644.1	XP_021331254.1	42.417	422	239	4	191	612
5009	NP_001346644.1	XP_021331254.1	43.095	420	235	4	166	585
5010	NP_001346644.1	XP_021331254.1	43.365	422	228	6	217	631
5011	NP_001346644.1	XP_021331254.1	43.478	391	214	4	246	636
5012	NP_001346644.1	XP_021331254.1	39.759	415	246	4	115	529
5013	NP_001346644.1	XP_021331254.1	39.691	388	230	4	114	501
5014	NP_001346644.1	XP_021323880.1	45.434	438	235	4	179	616

5015	NP_001346644.1	XP_021323880.1	38.704	540	286	5	115	612
5016	NP_001346644.1	XP_021323880.1	38.069	549	290	6	113	619
5017	NP_001346644.1	XP_021323880.1	38.204	568	266	10	146	635
5018	NP_001346644.1	XP_021323880.1	38.519	540	285	5	115	611
5019	NP_001346644.1	XP_021323880.1	36.945	563	301	7	123	635
5020	NP_001346644.1	XP_021323880.1	37.376	503	261	7	179	631
5021	NP_001346644.1	XP_021323880.1	37.170	530	279	7	156	635
5022	NP_001346644.1	XP_021323880.1	31.298	131	89	1	118	248
5023	NP_001346644.1	XP_021323880.1	27.723	101	73	0	113	213
5024	NP_001346644.1	XP_021331253.1	44.000	425	234	4	187	611
5025	NP_001346644.1	XP_021331253.1	42.721	419	236	4	166	584
5026	NP_001346644.1	XP_021331253.1	42.893	401	225	4	156	556
5027	NP_001346644.1	XP_021331253.1	38.164	414	252	4	115	528
5028	NP_001346644.1	XP_021331253.1	41.840	337	188	3	302	631
5029	NP_001346644.1	XP_021331253.1	38.719	359	216	4	114	472
5030	NP_001346644.1	XP_021322226.1	41.731	520	284	6	123	631
5031	NP_001346644.1	XP_021322226.1	41.393	517	273	4	123	612
5032	NP_001346644.1	XP_021322226.1	42.510	494	280	4	123	616
5033	NP_001346644.1	XP_021322226.1	40.873	504	287	5	135	631
5034	NP_001346644.1	XP_021322226.1	41.614	471	271	4	115	585
5035	NP_001346644.1	XP_021322226.1	35.069	576	285	6	123	612
5036	NP_001346644.1	XP_021322226.1	43.968	373	206	3	240	612
5037	NP_001346644.1	XP_021322226.1	35.782	531	253	6	166	611
5038	NP_001346644.1	XP_021322226.1	33.560	587	320	8	115	635
5039	NP_001346644.1	XP_021322226.1	46.440	323	167	2	298	620
5040	NP_001346644.1	XP_021322226.1	35.516	504	265	5	166	612
5041	NP_001346644.1	XP_021322226.1	32.049	571	300	6	123	608
5042	NP_001346644.1	XP_021322226.1	33.133	498	243	6	113	524
5043	NP_001346644.1	XP_021322226.1	35.294	221	114	3	163	356
5044	NP_001346644.1	XP_009296573.2	42.017	476	268	5	153	628
5045	NP_001346644.1	XP_009296573.2	43.421	456	247	6	183	631
5046	NP_001346644.1	XP_009296573.2	41.189	471	273	4	136	606
5047	NP_001346644.1	XP_009296573.2	39.741	463	275	4	116	578
5048	NP_001346644.1	XP_009296573.2	40.654	428	250	4	124	551
5049	NP_001346644.1	XP_009296573.2	42.162	370	212	2	270	639
5050	NP_001346644.1	XP_009296573.2	42.918	233	132	1	379	611
5051	NP_001346644.1	XP_009296573.2	42.358	229	125	2	410	631
5052	NP_001346644.1	XP_021331032.1	41.566	498	287	4	115	612
5053	NP_001346644.1	XP_021331032.1	41.822	483	270	6	156	631
5054	NP_001346644.1	XP_021331032.1	39.842	507	282	5	123	610
5055	NP_001346644.1	XP_021331032.1	42.254	426	242	4	187	612
5056	NP_001346644.1	XP_021331032.1	39.426	383	219	5	116	498
5057	NP_001346644.1	XP_021331032.1	45.946	259	139	1	354	612

5058	NP_001346644.1	XP_021331032.1	42.857	224	121	2	415	631
5059	NP_001346644.1	XP_017208296.1	40.078	514	300	5	116	629
5060	NP_001346644.1	XP_017208296.1	38.520	527	313	5	112	631
5061	NP_001346644.1	XP_017208296.1	39.489	509	297	5	100	608
5062	NP_001346644.1	XP_017208296.1	44.022	368	203	3	244	611
5063	NP_001346644.1	XP_017208296.1	39.000	300	180	3	114	413
5064	NP_001346644.1	XP_021322225.1	41.138	457	265	4	156	612
5065	NP_001346644.1	XP_021322225.1	37.977	524	314	5	115	631
5066	NP_001346644.1	XP_021322225.1	36.735	539	325	7	115	641
5067	NP_001346644.1	XP_021322225.1	37.349	498	308	4	115	612
5068	NP_001346644.1	XP_021322225.1	35.888	535	332	6	104	631
5069	NP_001346644.1	XP_021322225.1	36.145	498	314	4	115	612
5070	NP_001346644.1	XP_021322225.1	41.779	371	213	3	242	612
5071	NP_001346644.1	XP_021322225.1	32.731	553	337	8	113	631
5072	NP_001346644.1	XP_021322225.1	35.240	437	279	4	115	551
5073	NP_001346644.1	XP_021322225.1	31.295	556	343	11	88	612
5074	NP_001346644.1	XP_021322225.1	41.786	280	162	1	332	611
5075	NP_001346644.1	XP_021322225.1	41.993	281	161	2	275	555
5076	NP_001346644.1	XP_021322225.1	40.493	284	165	4	217	500
5077	NP_001346644.1	XP_021322225.1	43.556	225	126	1	388	612
5078	NP_001346644.1	XP_021322225.1	37.143	280	172	4	136	415
5079	NP_001346644.1	XP_021322225.1	38.384	198	115	2	445	635
5080	NP_001346644.1	XP_017210343.1	41.004	478	278	4	135	612
5081	NP_001346644.1	XP_017210343.1	41.228	456	264	4	156	611
5082	NP_001346644.1	XP_017210343.1	40.720	361	210	4	135	495
5083	NP_001346644.1	XP_017210343.1	44.755	286	157	1	326	611
5084	NP_001346644.1	XP_017210343.1	40.598	234	138	1	379	612
5085	NP_001346644.1	XP_017210343.1	36.134	238	149	3	116	353
5086	NP_001346644.1	XP_017210343.1	38.889	144	81	1	495	631
5087	NP_001346644.1	XP_017210343.1	33.491	212	138	3	115	326
5088	NP_001346644.1	XP_017210343.1	30.894	123	85	0	113	235
5089	NP_001346644.1	XP_021325064.1	42.825	446	251	4	166	611
5090	NP_001346644.1	XP_021325064.1	42.373	413	234	4	166	578
5091	NP_001346644.1	XP_021325064.1	42.271	414	231	5	215	628
5092	NP_001346644.1	XP_021325064.1	39.588	437	260	4	114	550
5093	NP_001346644.1	XP_021325064.1	43.269	312	176	1	300	611
5094	NP_001346644.1	XP_021325064.1	40.598	234	138	1	381	614
5095	NP_001346644.1	XP_021325064.1	40.000	165	93	2	466	629
5096	NP_001346644.1	XP_021327156.1	44.076	422	232	4	191	612
5097	NP_001346644.1	XP_021327156.1	44.787	422	229	4	166	587
5098	NP_001346644.1	XP_021327156.1	44.505	364	193	4	275	631
5099	NP_001346644.1	XP_021327156.1	40.048	417	246	4	115	531
5100	NP_001346644.1	XP_021327156.1	43.785	354	191	3	285	631

5101	NP_001346644.1	XP_021327156.1	37.908	306	186	4	114	419
5102	NP_001346644.1	XP_021327156.1	31.515	165	111	2	113	277
5103	NP_001346644.1	XP_017208849.1	42.825	446	251	4	166	611
5104	NP_001346644.1	XP_017208849.1	42.584	418	236	4	166	583
5105	NP_001346644.1	XP_017208849.1	39.819	442	262	4	114	555
5106	NP_001346644.1	XP_017208849.1	42.271	414	231	5	215	628
5107	NP_001346644.1	XP_017208849.1	43.269	312	176	1	300	611
5108	NP_001346644.1	XP_017208849.1	40.598	234	138	1	381	614
5109	NP_001346644.1	XP_017208849.1	40.000	165	93	2	466	629
5110	NP_001346644.1	XP_021331392.1	47.861	374	192	3	236	609
5111	NP_001346644.1	XP_021331392.1	48.563	348	177	2	265	612
5112	NP_001346644.1	XP_021331392.1	42.667	375	211	4	123	497
5113	NP_001346644.1	XP_021331392.1	37.918	269	164	3	116	384
5114	NP_001346644.1	XP_021331392.1	38.318	214	129	3	115	328
5115	NP_001346644.1	XP_021330855.1	43.119	436	243	5	176	610
5116	NP_001346644.1	XP_021330855.1	43.590	429	238	4	154	582
5117	NP_001346644.1	XP_021330855.1	44.750	400	217	4	212	611
5118	NP_001346644.1	XP_021330855.1	41.119	411	235	5	144	554
5119	NP_001346644.1	XP_021330855.1	40.731	383	223	4	116	498
5120	NP_001346644.1	XP_021330855.1	41.500	200	110	2	439	631
5121	NP_001346644.1	XP_021330855.1	34.375	160	103	2	113	272
5122	NP_001346644.1	XP_021331433.1	45.122	410	220	5	217	625
5123	NP_001346644.1	XP_021331433.1	45.663	392	209	4	191	582
5124	NP_001346644.1	XP_021331433.1	44.473	389	212	4	166	554
5125	NP_001346644.1	XP_021331433.1	41.582	392	225	4	135	526
5126	NP_001346644.1	XP_021331433.1	40.209	383	225	4	116	498
5127	NP_001346644.1	XP_021331433.1	47.670	279	138	3	360	631
5128	NP_001346644.1	XP_021331433.1	28.462	130	92	1	114	243
5129	NP_001346644.1	XP_021331231.1	44.691	405	218	4	156	557
5130	NP_001346644.1	XP_021331231.1	44.118	408	222	4	208	612
5131	NP_001346644.1	XP_021331231.1	44.390	410	222	4	179	585
5132	NP_001346644.1	XP_021331231.1	46.439	351	182	3	265	611
5133	NP_001346644.1	XP_021331231.1	41.363	411	233	5	123	529
5134	NP_001346644.1	XP_021331231.1	35.887	248	156	3	113	360
5135	NP_001346644.1	XP_021331231.1	35.789	190	119	3	116	305
5136	NP_001346644.1	XP_001336870.2	41.575	457	263	4	149	605
5137	NP_001346644.1	XP_001336870.2	43.885	417	230	4	195	611
5138	NP_001346644.1	XP_001336870.2	41.972	436	249	4	177	612
5139	NP_001346644.1	XP_001336870.2	39.056	466	276	5	116	577
5140	NP_001346644.1	XP_001336870.2	45.628	366	194	3	264	626
5141	NP_001346644.1	XP_001336870.2	37.585	439	267	5	83	521
5142	NP_001346644.1	XP_001336870.2	44.981	269	140	2	370	631
5143	NP_001346644.1	XP_021329720.1	42.377	446	253	4	166	611

5144	NP_001346644.1	XP_021329720.1	39.592	490	292	4	115	604
5145	NP_001346644.1	XP_021329720.1	40.959	459	267	4	156	614
5146	NP_001346644.1	XP_021329720.1	42.043	421	240	4	191	611
5147	NP_001346644.1	XP_021329720.1	42.172	396	225	4	217	612
5148	NP_001346644.1	XP_021329720.1	41.730	393	219	5	246	631
5149	NP_001346644.1	XP_021328583.1	41.267	521	295	6	118	631
5150	NP_001346644.1	XP_021328583.1	43.662	497	276	4	115	611
5151	NP_001346644.1	XP_021328583.1	41.714	525	276	4	114	611
5152	NP_001346644.1	XP_021328583.1	43.145	496	278	4	116	611
5153	NP_001346644.1	XP_021328583.1	42.065	523	292	5	116	631
5154	NP_001346644.1	XP_021328583.1	42.262	504	259	5	136	611
5155	NP_001346644.1	XP_021328583.1	40.000	550	293	6	116	631
5156	NP_001346644.1	XP_021328583.1	43.478	483	262	6	156	631
5157	NP_001346644.1	XP_021328583.1	41.683	523	294	6	116	631
5158	NP_001346644.1	XP_021328583.1	38.919	555	302	5	111	631
5159	NP_001346644.1	XP_021328583.1	41.700	494	284	4	118	611
5160	NP_001346644.1	XP_021328583.1	41.075	521	296	5	118	631
5161	NP_001346644.1	XP_021328583.1	41.093	494	287	4	118	611
5162	NP_001346644.1	XP_021328583.1	39.924	526	286	4	113	611
5163	NP_001346644.1	XP_021328583.1	39.029	515	284	4	124	611
5164	NP_001346644.1	XP_021328583.1	44.912	285	149	3	354	631
5165	NP_001346644.1	XP_017212100.2	41.575	457	263	4	156	612
5166	NP_001346644.1	XP_017212100.2	40.088	454	268	4	156	609
5167	NP_001346644.1	XP_017212100.2	38.758	467	282	4	115	581
5168	NP_001346644.1	XP_017212100.2	41.439	403	226	5	236	631
5169	NP_001346644.1	XP_021330478.1	38.964	521	301	7	124	631
5170	NP_001346644.1	XP_021330478.1	40.040	502	291	6	116	611
5171	NP_001346644.1	XP_021330478.1	38.050	523	286	5	124	612
5172	NP_001346644.1	XP_021330478.1	39.683	504	294	6	114	611
5173	NP_001346644.1	XP_021330478.1	37.970	532	313	8	113	631
5174	NP_001346644.1	XP_021330478.1	40.323	496	286	6	123	612
5175	NP_001346644.1	XP_021330478.1	40.159	503	291	6	113	609
5176	NP_001346644.1	XP_021330478.1	39.634	492	280	8	153	631
5177	NP_001346644.1	XP_021330478.1	42.006	319	158	1	320	611
5178	NP_001346644.1	XP_021330478.1	33.600	125	79	2	512	636
5179	NP_001346644.1	XP_009300324.1	42.377	446	253	4	166	611
5180	NP_001346644.1	XP_009300324.1	39.592	490	292	4	115	604
5181	NP_001346644.1	XP_009300324.1	40.959	459	267	4	156	614
5182	NP_001346644.1	XP_009300324.1	42.043	421	240	4	191	611
5183	NP_001346644.1	XP_009300324.1	42.172	396	225	4	217	612
5184	NP_001346644.1	XP_009300324.1	41.730	393	219	5	246	631
5185	NP_001346644.1	XP_021323944.1	44.601	426	232	4	191	616
5186	NP_001346644.1	XP_021323944.1	41.007	417	242	4	138	554

5187	NP_001346644.1	XP_021323944.1	43.011	372	209	3	241	612
5188	NP_001346644.1	XP_021323944.1	43.020	351	192	3	292	635
5189	NP_001346644.1	XP_021323944.1	38.764	356	214	4	115	470
5190	NP_001346644.1	XP_021323944.1	40.909	132	73	3	146	277
5191	NP_001346644.1	XP_017207864.1	44.266	436	237	5	179	612
5192	NP_001346644.1	XP_017207864.1	41.886	456	257	6	151	606
5193	NP_001346644.1	XP_017207864.1	37.784	352	212	5	115	466
5194	NP_001346644.1	XP_021323881.1	44.725	436	235	5	179	612
5195	NP_001346644.1	XP_021323881.1	42.348	477	271	4	134	610
5196	NP_001346644.1	XP_021323881.1	40.443	497	284	7	132	623
5197	NP_001346644.1	XP_021323881.1	39.187	541	282	6	115	612
5198	NP_001346644.1	XP_021323881.1	36.969	541	294	5	115	612
5199	NP_001346644.1	XP_021323881.1	38.148	540	289	5	115	612
5200	NP_001346644.1	XP_021323881.1	42.208	462	262	5	151	612
5201	NP_001346644.1	XP_021323881.1	34.683	568	317	7	118	635
5202	NP_001346644.1	XP_021323881.1	35.979	567	309	7	115	631
5203	NP_001346644.1	XP_021323881.1	29.412	136	95	1	113	248
5204	NP_001346644.1	XP_021328707.1	43.764	441	237	5	198	631
5205	NP_001346644.1	XP_021328707.1	41.650	497	286	4	115	611
5206	NP_001346644.1	XP_021328707.1	42.469	478	262	6	133	610
5207	NP_001346644.1	XP_021328707.1	40.506	395	231	4	114	508
5208	NP_001346644.1	XP_021328707.1	37.500	304	186	4	111	414
5209	NP_001346644.1	XP_021324960.1	35.616	584	334	7	83	631
5210	NP_001346644.1	XP_021324960.1	35.249	522	322	5	103	612
5211	NP_001346644.1	XP_021324960.1	36.680	518	272	4	113	576
5212	NP_001346644.1	XP_021324960.1	43.425	327	181	2	285	611
5213	NP_001346644.1	XP_021330459.1	41.071	504	289	5	113	612
5214	NP_001346644.1	XP_021330459.1	40.385	520	295	6	123	631
5215	NP_001346644.1	XP_021330459.1	41.118	501	285	6	116	609
5216	NP_001346644.1	XP_021330459.1	39.882	509	290	6	113	611
5217	NP_001346644.1	XP_021330459.1	39.583	528	304	6	115	631
5218	NP_001346644.1	XP_021330459.1	39.425	487	280	8	156	631
5219	NP_001346644.1	XP_021330459.1	42.652	279	159	1	333	611
5220	NP_001346644.1	XP_021326626.1	41.118	501	288	5	116	616
5221	NP_001346644.1	XP_021326626.1	41.700	494	281	5	124	617
5222	NP_001346644.1	XP_021326626.1	39.600	500	262	6	166	631
5223	NP_001346644.1	XP_021326626.1	38.776	539	299	7	113	625
5224	NP_001346644.1	XP_021326626.1	40.941	425	210	6	242	631
5225	NP_001346644.1	XP_021326626.1	40.909	418	240	5	116	533
5226	NP_001346644.1	XP_021326626.1	41.853	313	178	2	328	640
5227	NP_001346644.1	XP_021331368.1	46.154	390	206	4	222	611
5228	NP_001346644.1	XP_021331368.1	43.614	415	230	4	196	610
5229	NP_001346644.1	XP_021331368.1	43.885	417	230	4	166	582

5230	NP_001346644.1	XP_021331368.1	38.592	412	249	4	115	526
5231	NP_001346644.1	XP_021331368.1	39.216	357	213	4	114	470
5232	NP_001346644.1	XP_021331368.1	45.528	246	126	3	393	631
5233	NP_001346644.1	XP_021326627.1	40.974	493	287	4	124	616
5234	NP_001346644.1	XP_021326627.1	40.272	514	301	6	113	625
5235	NP_001346644.1	XP_021326627.1	39.773	528	311	6	90	617
5236	NP_001346644.1	XP_021326627.1	41.438	473	266	5	166	631
5237	NP_001346644.1	XP_021326627.1	41.745	424	236	5	215	631
5238	NP_001346644.1	XP_021326627.1	41.727	417	239	4	117	533
5239	NP_001346644.1	XP_021326627.1	41.003	339	192	2	300	631
5240	NP_001346644.1	XP_017210344.1	44.104	424	233	4	183	606
5241	NP_001346644.1	XP_017210344.1	42.923	431	238	5	198	628
5242	NP_001346644.1	XP_017210344.1	40.845	426	248	4	153	578
5243	NP_001346644.1	XP_017210344.1	41.106	416	241	4	136	551
5244	NP_001346644.1	XP_017210344.1	42.522	341	195	1	299	639
5245	NP_001346644.1	XP_017210344.1	38.235	408	248	4	116	523
5246	NP_001346644.1	XP_017210344.1	44.268	314	167	2	325	631
5247	NP_001346644.1	XP_021331140.1	45.153	392	212	3	166	557
5248	NP_001346644.1	XP_021331140.1	45.385	390	210	3	196	585
5249	NP_001346644.1	XP_021331140.1	44.643	392	212	5	222	612
5250	NP_001346644.1	XP_021331140.1	41.282	390	226	3	140	529
5251	NP_001346644.1	XP_021331140.1	41.504	359	175	3	309	632
5252	NP_001346644.1	XP_021331140.1	42.391	368	207	5	135	501
5253	NP_001346644.1	XP_021331140.1	40.111	359	210	5	116	473
5254	NP_001346644.1	XP_021331140.1	35.160	219	139	3	114	332
5255	NP_001346644.1	XP_021331140.1	36.316	190	118	3	116	305
5256	NP_001346644.1	XP_021330455.1	40.088	454	268	4	156	609
5257	NP_001346644.1	XP_021330455.1	40.257	467	275	4	115	581
5258	NP_001346644.1	XP_021330455.1	44.724	398	216	4	214	611
5259	NP_001346644.1	XP_021330455.1	40.045	447	264	4	166	612
5260	NP_001346644.1	XP_021330455.1	42.141	439	244	6	191	628
5261	NP_001346644.1	XP_021330455.1	44.211	285	151	3	354	631
5262	NP_001346644.1	XP_021330455.1	34.270	356	204	4	116	444
5263	NP_001346644.1	XP_021330454.1	40.088	454	268	4	156	609
5264	NP_001346644.1	XP_021330454.1	40.257	467	275	4	115	581
5265	NP_001346644.1	XP_021330454.1	44.724	398	216	4	214	611
5266	NP_001346644.1	XP_021330454.1	40.045	447	264	4	166	612
5267	NP_001346644.1	XP_021330454.1	42.141	439	244	6	191	628
5268	NP_001346644.1	XP_021330454.1	44.211	285	151	3	354	631
5269	NP_001346644.1	XP_021330454.1	34.270	356	204	4	116	444
5270	NP_001346644.1	XP_017210218.1	39.469	527	289	4	115	614
5271	NP_001346644.1	XP_017210218.1	42.888	457	257	4	156	612
5272	NP_001346644.1	XP_017210218.1	43.316	374	209	3	244	617

5273	NP_001346644.1	XP_017210218.1	42.663	368	209	2	273	640
5274	NP_001346644.1	XP_017210218.1	49.035	259	131	1	354	612
5275	NP_001346644.1	XP_021330462.1	41.189	454	263	4	156	609
5276	NP_001346644.1	XP_021330462.1	41.458	439	253	4	173	611
5277	NP_001346644.1	XP_021330462.1	38.793	464	280	4	118	581
5278	NP_001346644.1	XP_021330462.1	35.366	328	208	4	114	441
5279	NP_001346644.1	XP_021330462.1	43.162	234	126	2	405	631
5280	NP_001346644.1	XP_021330461.1	41.189	454	263	4	156	609
5281	NP_001346644.1	XP_021330461.1	41.458	439	253	4	173	611
5282	NP_001346644.1	XP_021330461.1	38.793	464	280	4	118	581
5283	NP_001346644.1	XP_021330461.1	35.366	328	208	4	114	441
5284	NP_001346644.1	XP_021330461.1	43.162	234	126	2	405	631
5285	NP_001346644.1	XP_021330460.1	41.189	454	263	4	156	609
5286	NP_001346644.1	XP_021330460.1	41.458	439	253	4	173	611
5287	NP_001346644.1	XP_021330460.1	38.793	464	280	4	118	581
5288	NP_001346644.1	XP_021330460.1	35.366	328	208	4	114	441
5289	NP_001346644.1	XP_021330460.1	43.162	234	126	2	405	631
5290	NP_001346644.1	XP_021331419.1	46.214	383	202	4	212	594
5291	NP_001346644.1	XP_021331419.1	45.455	374	201	3	241	614
5292	NP_001346644.1	XP_021331419.1	45.288	382	205	4	156	537
5293	NP_001346644.1	XP_021331419.1	43.666	371	207	2	270	640
5294	NP_001346644.1	XP_021331419.1	39.510	367	218	4	115	481
5295	NP_001346644.1	XP_021331419.1	48.450	258	132	1	354	611
5296	NP_001346644.1	XP_021331419.1	36.879	282	175	3	116	397
5297	NP_001346644.1	XP_021331419.1	32.164	171	114	2	113	283
5298	NP_001346644.1	XP_021326559.1	47.011	368	192	3	245	612
5299	NP_001346644.1	XP_021326559.1	46.684	377	197	4	216	592
5300	NP_001346644.1	XP_021326559.1	46.257	374	197	4	191	564
5301	NP_001346644.1	XP_021326559.1	45.528	369	192	4	274	635
5302	NP_001346644.1	XP_021326559.1	43.681	364	198	5	145	508
5303	NP_001346644.1	XP_021326559.1	41.644	365	209	4	116	480
5304	NP_001346644.1	XP_021329614.1	37.523	533	293	7	115	611
5305	NP_001346644.1	XP_021329614.1	37.500	536	295	7	113	612
5306	NP_001346644.1	XP_021329614.1	44.444	369	201	4	210	578
5307	NP_001346644.1	XP_021329614.1	35.294	561	316	11	115	632
5308	NP_001346644.1	XP_021329614.1	43.127	371	208	3	244	614
5309	NP_001346644.1	XP_021329614.1	37.602	492	260	10	183	631
5310	NP_001346644.1	XP_021329614.1	44.027	293	163	1	320	612
5311	NP_001346644.1	XP_021329614.1	46.850	254	134	1	327	580
5312	NP_001346644.1	XP_021329614.1	36.480	392	235	6	114	496
5313	NP_001346644.1	XP_021329614.1	28.846	104	74	0	115	218
5314	NP_001346644.1	XP_003198589.1	45.176	425	223	5	191	609
5315	NP_001346644.1	XP_003198589.1	43.176	403	219	5	215	611

5316	NP_001346644.1	XP_003198589.1	39.749	478	276	6	112	581
5317	NP_001346644.1	XP_021331500.1	43.560	427	237	4	186	612
5318	NP_001346644.1	XP_021331500.1	40.302	464	269	6	163	625
5319	NP_001346644.1	XP_021331500.1	43.291	395	214	4	244	631
5320	NP_001346644.1	XP_021331500.1	41.905	420	240	4	156	575
5321	NP_001346644.1	XP_021331500.1	39.862	434	257	4	114	547
5322	NP_001346644.1	XP_021331500.1	35.354	297	189	3	113	409
5323	NP_001346644.1	XP_017211180.1	45.455	374	200	4	212	585
5324	NP_001346644.1	XP_017211180.1	45.528	369	198	3	244	612
5325	NP_001346644.1	XP_017211180.1	44.652	374	203	4	156	529
5326	NP_001346644.1	XP_017211180.1	44.984	309	162	3	330	631
5327	NP_001346644.1	XP_017211180.1	45.614	285	147	3	354	631
5328	NP_001346644.1	XP_017211180.1	38.162	359	218	4	115	473
5329	NP_001346644.1	XP_017211180.1	36.471	170	105	3	136	305
5330	NP_001346644.1	XP_017211180.1	32.317	164	109	2	113	276
5331	NP_001346644.1	XP_009297410.1	45.476	420	225	4	191	610
5332	NP_001346644.1	XP_009297410.1	44.604	417	227	4	166	582
5333	NP_001346644.1	XP_009297410.1	42.654	422	231	5	217	631
5334	NP_001346644.1	XP_009297410.1	43.358	399	222	4	156	554
5335	NP_001346644.1	XP_009297410.1	44.290	359	192	4	275	632
5336	NP_001346644.1	XP_009297410.1	44.211	285	158	1	327	611
5337	NP_001346644.1	XP_009297410.1	46.512	258	137	1	354	611
5338	NP_001346644.1	XP_009297410.1	38.736	364	219	4	107	470
5339	NP_001346644.1	XP_002660736.2	38.604	487	289	5	132	612
5340	NP_001346644.1	XP_002660736.2	39.315	496	297	4	113	608
5341	NP_001346644.1	XP_002660736.2	36.364	275	172	3	115	389
5342	NP_001346644.1	XP_021322746.1	39.148	493	296	4	119	611
5343	NP_001346644.1	XP_021322746.1	41.834	447	256	4	166	612
5344	NP_001346644.1	XP_021322746.1	38.066	486	297	4	118	603
5345	NP_001346644.1	XP_021322746.1	38.780	459	277	4	117	575
5346	NP_001346644.1	XP_021322746.1	40.214	373	218	5	241	612
5347	NP_001346644.1	XP_021322746.1	36.842	380	230	6	115	491
5348	NP_001346644.1	XP_021322746.1	35.154	293	187	3	115	407
5349	NP_001346644.1	XP_021322746.1	34.127	252	159	2	387	631
5350	NP_001346644.1	XP_021322746.1	29.245	212	122	2	115	299
5351	NP_001346644.1	XP_021322746.1	28.261	92	66	0	114	205
5352	NP_001346644.1	XP_009297415.1	39.759	498	294	4	114	611
5353	NP_001346644.1	XP_009297415.1	39.337	483	280	5	156	631
5354	NP_001346644.1	XP_009297415.1	40.086	464	272	5	115	578
5355	NP_001346644.1	XP_009297415.1	41.492	429	245	5	183	611
5356	NP_001346644.1	XP_009297415.1	39.617	366	187	3	299	631
5357	NP_001346644.1	XP_009297415.1	39.617	313	179	4	326	631
5358	NP_001346644.1	XP_009297415.1	36.308	325	203	4	114	438

5359	NP_001346644.1	XP_009297415.1	36.626	243	151	3	114	356
5360	NP_001346644.1	XP_009297415.1	26.957	115	81	1	96	210
5361	NP_001346644.1	XP_021327005.1	38.776	490	260	7	158	611
5362	NP_001346644.1	XP_021327005.1	38.008	492	265	7	123	578
5363	NP_001346644.1	XP_021327005.1	36.306	471	260	7	116	550
5364	NP_001346644.1	XP_021327005.1	47.266	256	134	1	354	609
5365	NP_001346644.1	XP_021327005.1	46.087	230	123	1	383	612
5366	NP_001346644.1	XP_021327005.1	34.262	359	198	6	115	438
5367	NP_001346644.1	XP_021330544.1	38.776	490	260	7	158	611
5368	NP_001346644.1	XP_021330544.1	38.008	492	265	7	123	578
5369	NP_001346644.1	XP_021330544.1	36.306	471	260	7	116	550
5370	NP_001346644.1	XP_021330544.1	47.266	256	134	1	354	609
5371	NP_001346644.1	XP_021330544.1	46.087	230	123	1	383	612
5372	NP_001346644.1	XP_021330544.1	34.262	359	198	6	115	438
5373	NP_001346644.1	XP_021322223.1	43.297	455	251	5	166	617
5374	NP_001346644.1	XP_021322223.1	40.000	445	260	5	113	554
5375	NP_001346644.1	XP_021322223.1	44.277	332	179	3	292	618
5376	NP_001346644.1	XP_021322223.1	46.795	312	162	2	304	612
5377	NP_001346644.1	XP_021322223.1	42.671	307	171	4	166	470
5378	NP_001346644.1	XP_021322223.1	40.190	316	184	4	128	441
5379	NP_001346644.1	XP_021322223.1	36.688	308	190	4	113	418
5380	NP_001346644.1	XP_021322223.1	39.695	131	75	3	166	294
5381	NP_001346644.1	XP_021331369.1	46.409	362	190	4	217	578
5382	NP_001346644.1	XP_021331369.1	45.604	364	195	3	246	609
5383	NP_001346644.1	XP_021331369.1	46.154	338	180	2	275	612
5384	NP_001346644.1	XP_021331369.1	42.700	363	204	4	191	553
5385	NP_001346644.1	XP_021331369.1	45.603	307	159	3	332	631
5386	NP_001346644.1	XP_021331369.1	39.669	363	215	4	135	497
5387	NP_001346644.1	XP_021331369.1	39.489	352	209	4	118	469
5388	NP_001346644.1	XP_021331369.1	36.100	241	151	3	114	354
5389	NP_001346644.1	XP_021330562.1	39.771	523	304	5	116	631
5390	NP_001346644.1	XP_021330562.1	39.321	501	300	4	114	614
5391	NP_001346644.1	XP_021330562.1	39.157	498	299	4	115	612
5392	NP_001346644.1	XP_021330562.1	39.157	498	299	4	115	612
5393	NP_001346644.1	XP_021330562.1	39.752	483	280	5	156	631
5394	NP_001346644.1	XP_021330562.1	39.113	496	298	4	116	611
5395	NP_001346644.1	XP_021330562.1	41.401	471	266	6	159	628
5396	NP_001346644.1	XP_021330562.1	38.947	475	286	4	118	592
5397	NP_001346644.1	XP_021330562.1	39.333	450	263	5	115	564
5398	NP_001346644.1	XP_021330562.1	36.816	402	240	6	116	515
5399	NP_001346644.1	XP_021330562.1	36.785	367	222	5	114	480
5400	NP_001346644.1	NP_001108370.1	42.523	428	242	4	184	611
5401	NP_001346644.1	NP_001108370.1	40.471	467	270	5	135	601

5402	NP_001346644.1	NP_001108370.1	37.135	377	180	3	292	612
5403	NP_001346644.1	NP_001108370.1	34.615	312	200	4	113	424
5404	NP_001346644.1	NP_001108370.1	40.845	213	126	0	399	611
5405	NP_001346644.1	NP_001108370.1	36.313	179	112	2	113	291
5406	NP_001346644.1	XP_021334143.1	42.523	428	242	4	184	611
5407	NP_001346644.1	XP_021334143.1	40.471	467	270	5	135	601
5408	NP_001346644.1	XP_021334143.1	37.135	377	180	3	292	612
5409	NP_001346644.1	XP_021334143.1	34.615	312	200	4	113	424
5410	NP_001346644.1	XP_021334143.1	40.845	213	126	0	399	611
5411	NP_001346644.1	XP_021334143.1	36.313	179	112	2	113	291
5412	NP_001346644.1	XP_021329613.1	38.283	559	298	9	116	631
5413	NP_001346644.1	XP_021329613.1	37.523	533	293	7	115	611
5414	NP_001346644.1	XP_021329613.1	40.113	531	280	7	116	611
5415	NP_001346644.1	XP_021329613.1	37.500	536	295	7	113	612
5416	NP_001346644.1	XP_021329613.1	37.454	542	286	8	136	631
5417	NP_001346644.1	XP_021329613.1	36.804	557	309	6	116	631
5418	NP_001346644.1	XP_021329613.1	46.292	391	206	4	219	609
5419	NP_001346644.1	XP_021329613.1	44.444	369	201	4	210	578
5420	NP_001346644.1	XP_021329613.1	35.294	561	316	11	115	632
5421	NP_001346644.1	XP_021329613.1	43.127	371	208	3	244	614
5422	NP_001346644.1	XP_021329613.1	43.750	368	203	4	183	550
5423	NP_001346644.1	XP_021329613.1	34.035	570	319	12	114	631
5424	NP_001346644.1	XP_021329613.1	44.027	293	163	1	320	612
5425	NP_001346644.1	XP_021329613.1	37.165	261	161	3	124	384
5426	NP_001346644.1	XP_021329613.1	28.926	121	85	1	122	242
5427	NP_001346644.1	XP_021329613.1	27.451	102	74	0	114	215
5428	NP_001346644.1	XP_005170460.1	39.175	485	263	5	166	621
5429	NP_001346644.1	XP_005170460.1	42.456	285	162	2	328	611
5430	NP_001346644.1	XP_005170460.1	41.294	201	118	0	411	611
5431	NP_001346644.1	XP_021331847.1	37.769	511	304	6	115	615
5432	NP_001346644.1	XP_021331847.1	34.914	464	296	5	115	577
5433	NP_001346644.1	XP_021331847.1	36.758	438	239	4	211	612
5434	NP_001346644.1	NP_001289162.1	37.769	511	304	6	115	615
5435	NP_001346644.1	NP_001289162.1	34.914	464	296	5	115	577
5436	NP_001346644.1	NP_001289162.1	36.758	438	239	4	211	612
5437	NP_001346644.1	XP_017211886.2	42.891	422	237	4	191	612
5438	NP_001346644.1	XP_017211886.2	41.723	441	253	4	171	611
5439	NP_001346644.1	XP_017211886.2	41.425	449	258	5	145	592
5440	NP_001346644.1	XP_017211886.2	39.778	450	267	4	115	564
5441	NP_001346644.1	XP_017211886.2	44.809	366	199	3	246	611
5442	NP_001346644.1	XP_017211886.2	40.000	415	245	4	124	538
5443	NP_001346644.1	XP_017211886.2	42.718	309	169	2	330	631
5444	NP_001346644.1	XP_017211886.2	35.470	234	148	3	106	339

5445	NP_001346644.1	XP_021327017.1	45.330	364	195	4	215	578
5446	NP_001346644.1	XP_021327017.1	43.956	364	201	3	244	607
5447	NP_001346644.1	XP_021327017.1	44.505	364	198	4	187	550
5448	NP_001346644.1	XP_021327017.1	45.294	340	184	2	273	612
5449	NP_001346644.1	XP_021327017.1	44.510	337	179	3	302	631
5450	NP_001346644.1	XP_021327017.1	45.675	289	155	2	325	612
5451	NP_001346644.1	XP_021327017.1	38.352	352	213	4	115	466
5452	NP_001346644.1	XP_021327017.1	44.385	187	104	0	425	611
5453	NP_001346644.1	XP_021327017.1	37.190	242	149	3	113	354
5454	NP_001346644.1	XP_021327017.1	36.765	68	43	0	545	612
5455	NP_001346644.1	XP_021327016.1	45.330	364	195	4	215	578
5456	NP_001346644.1	XP_021327016.1	43.956	364	201	3	244	607
5457	NP_001346644.1	XP_021327016.1	44.505	364	198	4	187	550
5458	NP_001346644.1	XP_021327016.1	45.294	340	184	2	273	612
5459	NP_001346644.1	XP_021327016.1	44.510	337	179	3	302	631
5460	NP_001346644.1	XP_021327016.1	45.675	289	155	2	325	612
5461	NP_001346644.1	XP_021327016.1	38.352	352	213	4	115	466
5462	NP_001346644.1	XP_021327016.1	44.385	187	104	0	425	611
5463	NP_001346644.1	XP_021327016.1	37.190	242	149	3	113	354
5464	NP_001346644.1	XP_021327016.1	36.765	68	43	0	545	612
5465	NP_001346644.1	XP_021327015.1	45.330	364	195	4	215	578
5466	NP_001346644.1	XP_021327015.1	43.956	364	201	3	244	607
5467	NP_001346644.1	XP_021327015.1	44.505	364	198	4	187	550
5468	NP_001346644.1	XP_021327015.1	45.294	340	184	2	273	612
5469	NP_001346644.1	XP_021327015.1	44.510	337	179	3	302	631
5470	NP_001346644.1	XP_021327015.1	45.675	289	155	2	325	612
5471	NP_001346644.1	XP_021327015.1	38.352	352	213	4	115	466
5472	NP_001346644.1	XP_021327015.1	44.385	187	104	0	425	611
5473	NP_001346644.1	XP_021327015.1	37.190	242	149	3	113	354
5474	NP_001346644.1	XP_021327015.1	36.765	68	43	0	545	612
5475	NP_001346644.1	XP_021327014.1	45.330	364	195	4	215	578
5476	NP_001346644.1	XP_021327014.1	43.956	364	201	3	244	607
5477	NP_001346644.1	XP_021327014.1	44.505	364	198	4	187	550
5478	NP_001346644.1	XP_021327014.1	45.294	340	184	2	273	612
5479	NP_001346644.1	XP_021327014.1	44.510	337	179	3	302	631
5480	NP_001346644.1	XP_021327014.1	45.675	289	155	2	325	612
5481	NP_001346644.1	XP_021327014.1	38.352	352	213	4	115	466
5482	NP_001346644.1	XP_021327014.1	44.385	187	104	0	425	611
5483	NP_001346644.1	XP_021327014.1	37.190	242	149	3	113	354
5484	NP_001346644.1	XP_021327014.1	36.765	68	43	0	545	612
5485	NP_001346644.1	XP_021327013.1	45.330	364	195	4	215	578
5486	NP_001346644.1	XP_021327013.1	43.956	364	201	3	244	607
5487	NP_001346644.1	XP_021327013.1	44.505	364	198	4	187	550

5488	NP_001346644.1	XP_021327013.1	45.294	340	184	2	273	612
5489	NP_001346644.1	XP_021327013.1	44.510	337	179	3	302	631
5490	NP_001346644.1	XP_021327013.1	45.675	289	155	2	325	612
5491	NP_001346644.1	XP_021327013.1	38.352	352	213	4	115	466
5492	NP_001346644.1	XP_021327013.1	44.385	187	104	0	425	611
5493	NP_001346644.1	XP_021327013.1	37.190	242	149	3	113	354
5494	NP_001346644.1	XP_021327013.1	36.765	68	43	0	545	612
5495	NP_001346644.1	XP_021330522.1	45.330	364	195	4	215	578
5496	NP_001346644.1	XP_021330522.1	43.956	364	201	3	244	607
5497	NP_001346644.1	XP_021330522.1	44.505	364	198	4	187	550
5498	NP_001346644.1	XP_021330522.1	45.294	340	184	2	273	612
5499	NP_001346644.1	XP_021330522.1	44.510	337	179	3	302	631
5500	NP_001346644.1	XP_021330522.1	45.675	289	155	2	325	612
5501	NP_001346644.1	XP_021330522.1	38.352	352	213	4	115	466
5502	NP_001346644.1	XP_021330522.1	44.385	187	104	0	425	611
5503	NP_001346644.1	XP_021330522.1	37.190	242	149	3	113	354
5504	NP_001346644.1	XP_021330522.1	36.765	68	43	0	545	612
5505	NP_001346644.1	XP_021330519.1	45.330	364	195	4	215	578
5506	NP_001346644.1	XP_021330519.1	43.956	364	201	3	244	607
5507	NP_001346644.1	XP_021330519.1	44.505	364	198	4	187	550
5508	NP_001346644.1	XP_021330519.1	45.294	340	184	2	273	612
5509	NP_001346644.1	XP_021330519.1	44.510	337	179	3	302	631
5510	NP_001346644.1	XP_021330519.1	45.675	289	155	2	325	612
5511	NP_001346644.1	XP_021330519.1	38.352	352	213	4	115	466
5512	NP_001346644.1	XP_021330519.1	44.385	187	104	0	425	611
5513	NP_001346644.1	XP_021330519.1	37.190	242	149	3	113	354
5514	NP_001346644.1	XP_021330519.1	36.765	68	43	0	545	612
5515	NP_001346644.1	XP_021330517.1	45.330	364	195	4	215	578
5516	NP_001346644.1	XP_021330517.1	43.956	364	201	3	244	607
5517	NP_001346644.1	XP_021330517.1	44.505	364	198	4	187	550
5518	NP_001346644.1	XP_021330517.1	45.294	340	184	2	273	612
5519	NP_001346644.1	XP_021330517.1	44.510	337	179	3	302	631
5520	NP_001346644.1	XP_021330517.1	45.675	289	155	2	325	612
5521	NP_001346644.1	XP_021330517.1	38.352	352	213	4	115	466
5522	NP_001346644.1	XP_021330517.1	44.385	187	104	0	425	611
5523	NP_001346644.1	XP_021330517.1	37.190	242	149	3	113	354
5524	NP_001346644.1	XP_021330517.1	36.765	68	43	0	545	612
5525	NP_001346644.1	XP_021330516.1	45.330	364	195	4	215	578
5526	NP_001346644.1	XP_021330516.1	43.956	364	201	3	244	607
5527	NP_001346644.1	XP_021330516.1	44.505	364	198	4	187	550
5528	NP_001346644.1	XP_021330516.1	45.294	340	184	2	273	612
5529	NP_001346644.1	XP_021330516.1	44.510	337	179	3	302	631
5530	NP_001346644.1	XP_021330516.1	45.675	289	155	2	325	612

5531	NP_001346644.1	XP_021330516.1	38.352	352	213	4	115	466
5532	NP_001346644.1	XP_021330516.1	44.385	187	104	0	425	611
5533	NP_001346644.1	XP_021330516.1	37.190	242	149	3	113	354
5534	NP_001346644.1	XP_021330516.1	36.765	68	43	0	545	612
5535	NP_001346644.1	XP_021330515.1	45.330	364	195	4	215	578
5536	NP_001346644.1	XP_021330515.1	43.956	364	201	3	244	607
5537	NP_001346644.1	XP_021330515.1	44.505	364	198	4	187	550
5538	NP_001346644.1	XP_021330515.1	45.294	340	184	2	273	612
5539	NP_001346644.1	XP_021330515.1	44.510	337	179	3	302	631
5540	NP_001346644.1	XP_021330515.1	45.675	289	155	2	325	612
5541	NP_001346644.1	XP_021330515.1	38.352	352	213	4	115	466
5542	NP_001346644.1	XP_021330515.1	44.385	187	104	0	425	611
5543	NP_001346644.1	XP_021330515.1	37.190	242	149	3	113	354
5544	NP_001346644.1	XP_021330515.1	36.765	68	43	0	545	612
5545	NP_001346644.1	XP_021330514.1	45.330	364	195	4	215	578
5546	NP_001346644.1	XP_021330514.1	43.956	364	201	3	244	607
5547	NP_001346644.1	XP_021330514.1	44.505	364	198	4	187	550
5548	NP_001346644.1	XP_021330514.1	45.294	340	184	2	273	612
5549	NP_001346644.1	XP_021330514.1	44.510	337	179	3	302	631
5550	NP_001346644.1	XP_021330514.1	45.675	289	155	2	325	612
5551	NP_001346644.1	XP_021330514.1	38.352	352	213	4	115	466
5552	NP_001346644.1	XP_021330514.1	44.385	187	104	0	425	611
5553	NP_001346644.1	XP_021330514.1	37.190	242	149	3	113	354
5554	NP_001346644.1	XP_021330514.1	36.765	68	43	0	545	612
5555	NP_001346644.1	XP_021330521.1	45.330	364	195	4	215	578
5556	NP_001346644.1	XP_021330521.1	43.956	364	201	3	244	607
5557	NP_001346644.1	XP_021330521.1	44.505	364	198	4	187	550
5558	NP_001346644.1	XP_021330521.1	45.294	340	184	2	273	612
5559	NP_001346644.1	XP_021330521.1	44.510	337	179	3	302	631
5560	NP_001346644.1	XP_021330521.1	45.675	289	155	2	325	612
5561	NP_001346644.1	XP_021330521.1	38.352	352	213	4	115	466
5562	NP_001346644.1	XP_021330521.1	44.385	187	104	0	425	611
5563	NP_001346644.1	XP_021330521.1	37.190	242	149	3	113	354
5564	NP_001346644.1	XP_021330521.1	36.765	68	43	0	545	612
5565	NP_001346644.1	XP_021330520.1	45.330	364	195	4	215	578
5566	NP_001346644.1	XP_021330520.1	43.956	364	201	3	244	607
5567	NP_001346644.1	XP_021330520.1	44.505	364	198	4	187	550
5568	NP_001346644.1	XP_021330520.1	45.294	340	184	2	273	612
5569	NP_001346644.1	XP_021330520.1	44.510	337	179	3	302	631
5570	NP_001346644.1	XP_021330520.1	45.675	289	155	2	325	612
5571	NP_001346644.1	XP_021330520.1	38.352	352	213	4	115	466
5572	NP_001346644.1	XP_021330520.1	44.385	187	104	0	425	611
5573	NP_001346644.1	XP_021330520.1	37.190	242	149	3	113	354

5574	NP_001346644.1	XP_021330520.1	36.765	68	43	0	545	612
5575	NP_001346644.1	XP_021330518.1	45.330	364	195	4	215	578
5576	NP_001346644.1	XP_021330518.1	43.956	364	201	3	244	607
5577	NP_001346644.1	XP_021330518.1	44.505	364	198	4	187	550
5578	NP_001346644.1	XP_021330518.1	45.294	340	184	2	273	612
5579	NP_001346644.1	XP_021330518.1	44.510	337	179	3	302	631
5580	NP_001346644.1	XP_021330518.1	45.675	289	155	2	325	612
5581	NP_001346644.1	XP_021330518.1	38.352	352	213	4	115	466
5582	NP_001346644.1	XP_021330518.1	44.385	187	104	0	425	611
5583	NP_001346644.1	XP_021330518.1	37.190	242	149	3	113	354
5584	NP_001346644.1	XP_021330518.1	36.765	68	43	0	545	612
5585	NP_001346644.1	NP_001107936.1	41.239	468	271	4	156	623
5586	NP_001346644.1	NP_001107936.1	40.162	493	291	4	119	611
5587	NP_001346644.1	NP_001107936.1	37.786	524	315	5	115	631
5588	NP_001346644.1	NP_001107936.1	39.718	496	295	4	118	613
5589	NP_001346644.1	NP_001107936.1	36.969	541	334	5	83	623
5590	NP_001346644.1	NP_001107936.1	40.702	285	161	2	354	631
5591	NP_001346644.1	NP_001107936.1	30.526	95	66	0	115	209
5592	NP_001346644.1	XP_021329615.1	44.444	369	201	4	210	578
5593	NP_001346644.1	XP_021329615.1	43.716	366	203	3	244	609
5594	NP_001346644.1	XP_021329615.1	43.750	368	203	4	183	550
5595	NP_001346644.1	XP_021329615.1	45.294	340	184	2	273	612
5596	NP_001346644.1	XP_021329615.1	44.027	293	163	1	320	612
5597	NP_001346644.1	XP_021329615.1	38.352	352	213	4	115	466
5598	NP_001346644.1	XP_021329615.1	32.237	152	102	1	113	264
5599	NP_001346644.1	XP_021330854.1	45.055	364	197	3	238	601
5600	NP_001346644.1	XP_021330854.1	45.665	346	186	2	267	612
5601	NP_001346644.1	XP_021330854.1	43.008	379	209	5	139	517
5602	NP_001346644.1	XP_021330854.1	44.606	343	182	3	296	631
5603	NP_001346644.1	XP_021330854.1	43.925	321	172	3	320	633
5604	NP_001346644.1	XP_021330854.1	38.108	370	225	4	120	489
5605	NP_001346644.1	XP_021330854.1	37.572	346	212	4	116	461
5606	NP_001346644.1	XP_021330854.1	35.146	239	146	5	113	348
5607	NP_001346644.1	XP_021321966.1	36.563	547	289	4	115	605
5608	NP_001346644.1	XP_021321966.1	37.313	536	276	5	134	612
5609	NP_001346644.1	XP_021321966.1	41.995	431	219	4	205	607
5610	NP_001346644.1	XP_021321966.1	34.423	581	314	7	115	631
5611	NP_001346644.1	XP_021321966.1	34.669	574	306	7	123	631
5612	NP_001346644.1	XP_021321966.1	35.017	574	284	6	124	611
5613	NP_001346644.1	XP_021321966.1	45.000	180	99	0	433	612
5614	NP_001346644.1	XP_021321966.1	41.341	179	98	2	460	631
5615	NP_001346644.1	XP_021324998.1	44.000	400	219	5	185	584
5616	NP_001346644.1	XP_021324998.1	44.110	399	218	5	213	611

5617	NP_001346644.1	XP_021324998.1	42.967	391	218	5	166	556
5618	NP_001346644.1	XP_021324998.1	43.603	383	206	4	256	631
5619	NP_001346644.1	XP_021324998.1	38.660	388	216	6	102	472
5620	NP_001346644.1	XP_017211059.1	46.175	366	194	3	244	609
5621	NP_001346644.1	XP_017211059.1	47.493	339	176	2	273	611
5622	NP_001346644.1	XP_017211059.1	47.267	311	163	1	302	612
5623	NP_001346644.1	XP_017211059.1	44.152	342	187	4	156	497
5624	NP_001346644.1	XP_017211059.1	39.437	355	211	4	115	469
5625	NP_001346644.1	XP_017211059.1	46.667	285	144	3	354	631
5626	NP_001346644.1	XP_017211059.1	37.269	271	167	3	114	384
5627	NP_001346644.1	XP_017211059.1	33.333	69	46	0	118	186
5628	NP_001346644.1	XP_017208838.1	35.802	567	314	9	113	637
5629	NP_001346644.1	XP_017208838.1	36.262	535	298	7	115	612
5630	NP_001346644.1	XP_017208838.1	38.767	503	288	6	123	609
5631	NP_001346644.1	XP_017208838.1	36.832	524	290	6	124	611
5632	NP_001346644.1	XP_017208838.1	36.862	529	265	7	149	612
5633	NP_001346644.1	XP_017208838.1	38.571	420	226	5	214	612
5634	NP_001346644.1	XP_017208838.1	36.473	414	245	5	113	525
5635	NP_001346644.1	XP_017208838.1	37.582	306	169	6	333	631
5636	NP_001346644.1	XP_009290247.2	36.926	566	298	7	122	632
5637	NP_001346644.1	XP_009290247.2	36.622	598	292	8	116	630
5638	NP_001346644.1	XP_009290247.2	37.736	530	278	5	130	611
5639	NP_001346644.1	XP_009290247.2	37.179	546	291	5	115	612
5640	NP_001346644.1	XP_009290247.2	36.106	565	304	7	96	611
5641	NP_001346644.1	XP_009290247.2	37.438	406	245	6	96	500
5642	NP_001346644.1	XP_009290247.2	45.263	285	155	1	332	616
5643	NP_001346644.1	XP_009290247.2	43.617	282	151	3	358	632
5644	NP_001346644.1	XP_009290247.2	27.027	74	54	0	116	189
5645	NP_001346644.1	XP_021331474.1	43.864	383	204	4	235	609
5646	NP_001346644.1	XP_021331474.1	43.597	367	203	4	187	553
5647	NP_001346644.1	XP_021331474.1	43.137	357	193	3	264	612
5648	NP_001346644.1	XP_021331474.1	41.962	367	209	4	159	525
5649	NP_001346644.1	XP_021331474.1	42.105	342	194	4	156	497
5650	NP_001346644.1	XP_021331474.1	38.310	355	215	4	115	469
5651	NP_001346644.1	XP_021331474.1	42.688	253	137	3	386	631
5652	NP_001346644.1	XP_021331474.1	37.201	293	181	3	114	406
5653	NP_001346644.1	XP_021331474.1	42.231	251	127	5	396	631
5654	NP_001346644.1	XP_005174049.1	39.270	466	275	6	162	627
5655	NP_001346644.1	XP_005174049.1	37.551	490	302	4	119	608
5656	NP_001346644.1	XP_005174049.1	38.153	498	303	5	115	612
5657	NP_001346644.1	XP_005174049.1	37.931	435	259	5	204	631
5658	NP_001346644.1	XP_005174049.1	36.475	488	279	6	116	576
5659	NP_001346644.1	XP_005174049.1	35.961	406	255	5	115	520

5660	NP_001346644.1	XP_003201060.1	39.270	466	275	6	162	627
5661	NP_001346644.1	XP_003201060.1	37.551	490	302	4	119	608
5662	NP_001346644.1	XP_003201060.1	38.153	498	303	5	115	612
5663	NP_001346644.1	XP_003201060.1	37.931	435	259	5	204	631
5664	NP_001346644.1	XP_003201060.1	36.475	488	279	6	116	576
5665	NP_001346644.1	XP_003201060.1	35.961	406	255	5	115	520
5666	NP_001346644.1	XP_009294401.1	39.270	466	275	6	162	627
5667	NP_001346644.1	XP_009294401.1	37.551	490	302	4	119	608
5668	NP_001346644.1	XP_009294401.1	38.153	498	303	5	115	612
5669	NP_001346644.1	XP_009294401.1	37.931	435	259	5	204	631
5670	NP_001346644.1	XP_009294401.1	36.475	488	279	6	116	576
5671	NP_001346644.1	XP_009294401.1	35.961	406	255	5	115	520
5672	NP_001346644.1	XP_021325132.1	39.270	466	275	6	162	627
5673	NP_001346644.1	XP_021325132.1	37.551	490	302	4	119	608
5674	NP_001346644.1	XP_021325132.1	38.153	498	303	5	115	612
5675	NP_001346644.1	XP_021325132.1	37.931	435	259	5	204	631
5676	NP_001346644.1	XP_021325132.1	36.475	488	279	6	116	576
5677	NP_001346644.1	XP_021325132.1	35.961	406	255	5	115	520
5678	NP_001346644.1	XP_017207343.2	44.581	406	220	5	213	617
5679	NP_001346644.1	XP_017207343.2	41.646	413	234	4	146	554
5680	NP_001346644.1	XP_017207343.2	38.701	385	231	5	115	498
5681	NP_001346644.1	XP_017207343.2	33.796	216	140	3	114	329
5682	NP_001346644.1	XP_017208850.2	39.869	459	271	5	154	611
5683	NP_001346644.1	XP_017208850.2	40.693	462	269	5	151	611
5684	NP_001346644.1	XP_017208850.2	38.983	472	283	5	115	585
5685	NP_001346644.1	XP_017208850.2	41.895	401	228	5	213	612
5686	NP_001346644.1	XP_017208850.2	40.955	398	224	5	242	631
5687	NP_001346644.1	XP_017208850.2	37.946	224	136	3	166	389
5688	NP_001346644.1	XP_021325334.1	36.879	564	304	7	117	631
5689	NP_001346644.1	XP_021325334.1	37.313	536	291	6	117	610
5690	NP_001346644.1	XP_021325334.1	36.413	552	304	8	118	628
5691	NP_001346644.1	XP_021325334.1	35.638	564	309	8	118	631
5692	NP_001346644.1	XP_021325334.1	38.681	455	271	6	173	627
5693	NP_001346644.1	XP_021325334.1	34.871	542	306	5	113	611
5694	NP_001346644.1	XP_021325334.1	41.928	415	236	5	197	611
5695	NP_001346644.1	XP_021325334.1	34.694	539	301	5	118	611
5696	NP_001346644.1	XP_021325334.1	36.913	447	278	4	138	584
5697	NP_001346644.1	XP_021325334.1	32.593	540	317	7	115	611
5698	NP_001346644.1	XP_021325334.1	39.106	358	210	5	115	470
5699	NP_001346644.1	XP_021325334.1	35.945	217	136	3	114	330
5700	NP_001346644.1	XP_017207345.1	44.581	406	220	5	213	617
5701	NP_001346644.1	XP_017207345.1	41.646	413	234	4	146	554
5702	NP_001346644.1	XP_017207345.1	38.701	385	231	5	115	498

5703	NP_001346644.1	XP_017207345.1	33.796	216	140	3	114	329
5704	NP_001346644.1	XP_017207344.1	44.581	406	220	5	213	617
5705	NP_001346644.1	XP_017207344.1	41.646	413	234	4	146	554
5706	NP_001346644.1	XP_017207344.1	38.701	385	231	5	115	498
5707	NP_001346644.1	XP_017207344.1	33.796	216	140	3	114	329
5708	NP_001346644.1	XP_009302923.1	43.720	414	229	4	203	616
5709	NP_001346644.1	XP_009302923.1	44.000	400	220	4	183	582
5710	NP_001346644.1	XP_009302923.1	44.562	377	206	3	241	617
5711	NP_001346644.1	XP_009302923.1	43.299	388	216	4	167	554
5712	NP_001346644.1	XP_009302923.1	42.133	375	208	4	258	625
5713	NP_001346644.1	XP_009302923.1	42.593	378	213	4	156	533
5714	NP_001346644.1	XP_009302923.1	39.323	384	229	4	115	498
5715	NP_001346644.1	XP_009302923.1	38.033	305	183	5	114	418
5716	NP_001346644.1	NP_001107903.1	44.658	365	198	4	217	581
5717	NP_001346644.1	NP_001107903.1	41.209	364	211	3	246	609
5718	NP_001346644.1	NP_001107903.1	40.443	361	211	4	165	525
5719	NP_001346644.1	NP_001107903.1	43.323	337	189	2	275	611
5720	NP_001346644.1	NP_001107903.1	44.586	314	170	2	304	617
5721	NP_001346644.1	NP_001107903.1	45.230	283	154	1	330	612
5722	NP_001346644.1	NP_001107903.1	36.338	355	222	4	115	469
5723	NP_001346644.1	NP_001107903.1	36.877	301	187	3	114	414
5724	NP_001346644.1	XP_009294140.1	43.577	397	220	4	215	611
5725	NP_001346644.1	XP_009294140.1	42.222	360	203	3	271	627
5726	NP_001346644.1	XP_009294140.1	39.737	380	225	4	148	527
5727	NP_001346644.1	XP_009294140.1	41.720	314	175	3	325	631
5728	NP_001346644.1	XP_009294140.1	37.468	387	238	4	114	500
5729	NP_001346644.1	XP_009299198.1	41.878	394	225	4	215	608
5730	NP_001346644.1	XP_009299198.1	40.674	445	254	6	113	552
5731	NP_001346644.1	XP_009299198.1	43.207	368	206	3	244	611
5732	NP_001346644.1	XP_009299198.1	44.928	345	185	3	273	617
5733	NP_001346644.1	XP_009299198.1	32.941	510	301	7	17	524
5734	NP_001346644.1	XP_009299198.1	36.333	300	188	3	115	414
5735	NP_001346644.1	XP_021327028.1	40.612	490	251	7	156	611
5736	NP_001346644.1	XP_021327028.1	38.114	509	297	7	136	631
5737	NP_001346644.1	XP_021327028.1	37.736	530	312	7	116	632
5738	NP_001346644.1	XP_021327028.1	38.382	482	250	8	191	631
5739	NP_001346644.1	XP_021327028.1	34.495	574	309	11	113	632
5740	NP_001346644.1	XP_021327028.1	34.909	550	302	9	113	611
5741	NP_001346644.1	XP_021327028.1	34.706	510	279	9	122	581
5742	NP_001346644.1	XP_021327028.1	38.155	401	185	4	271	610
5743	NP_001346644.1	XP_021327028.1	43.243	296	166	2	328	623
5744	NP_001346644.1	XP_021327028.1	36.957	276	168	5	109	384
5745	NP_001346644.1	XP_021327028.1	23.958	96	73	0	119	214

5746	NP_001346644.1	XP_017211305.1	42.757	428	213	6	213	612
5747	NP_001346644.1	XP_017211305.1	41.441	444	254	5	166	608
5748	NP_001346644.1	XP_017211305.1	39.180	439	261	6	115	552
5749	NP_001346644.1	XP_017211305.1	43.949	314	174	2	298	611
5750	NP_001346644.1	XP_017211305.1	32.407	216	138	3	90	299
5751	NP_001346644.1	XP_017211305.1	29.944	177	121	1	88	264
5752	NP_001346644.1	XP_021331476.1	42.757	428	213	6	213	612
5753	NP_001346644.1	XP_021331476.1	41.441	444	254	5	166	608
5754	NP_001346644.1	XP_021331476.1	39.180	439	261	6	115	552
5755	NP_001346644.1	XP_021331476.1	43.949	314	174	2	298	611
5756	NP_001346644.1	XP_021331476.1	32.407	216	138	3	90	299
5757	NP_001346644.1	XP_021331476.1	29.944	177	121	1	88	264
5758	NP_001346644.1	XP_021330458.1	45.902	366	195	3	244	609
5759	NP_001346644.1	XP_021330458.1	44.077	363	199	4	191	553
5760	NP_001346644.1	XP_021330458.1	44.886	352	190	4	174	525
5761	NP_001346644.1	XP_021330458.1	46.018	339	181	2	273	611
5762	NP_001346644.1	XP_021330458.1	41.972	355	202	4	115	469
5763	NP_001346644.1	XP_021330458.1	43.509	285	153	2	354	631
5764	NP_001346644.1	XP_021330458.1	26.471	102	75	0	113	214
5765	NP_001346644.1	XP_009294138.1	43.108	399	223	4	185	583
5766	NP_001346644.1	XP_009294138.1	42.211	398	226	4	215	612
5767	NP_001346644.1	XP_009294138.1	38.770	374	225	4	154	527
5768	NP_001346644.1	XP_009294138.1	41.401	314	176	2	325	631
5769	NP_001346644.1	XP_009294138.1	40.118	339	176	1	300	611
5770	NP_001346644.1	XP_009294138.1	35.917	387	244	4	114	500
5771	NP_001346644.1	XP_009294138.1	41.228	228	128	2	410	636
5772	NP_001346644.1	XP_009294138.1	35.036	274	175	3	113	386
5773	NP_001346644.1	XP_009294138.1	36.364	176	107	3	98	273
5774	NP_001346644.1	XP_017210643.2	47.826	322	166	2	273	594
5775	NP_001346644.1	XP_017210643.2	46.326	313	167	1	302	614
5776	NP_001346644.1	XP_017210643.2	41.411	326	187	4	156	481
5777	NP_001346644.1	XP_017210643.2	38.339	313	189	4	113	425
5778	NP_001346644.1	XP_017210643.2	36.491	285	178	3	113	397
5779	NP_001346644.1	XP_021325059.1	37.405	524	296	6	115	610
5780	NP_001346644.1	XP_021325059.1	38.382	482	267	5	157	611
5781	NP_001346644.1	XP_021325059.1	37.963	324	181	8	115	424
5782	NP_001346644.1	XP_021325059.1	37.838	259	146	4	353	611
5783	NP_001346644.1	XP_021326715.1	47.493	339	176	2	273	611
5784	NP_001346644.1	XP_021326715.1	44.262	366	201	3	244	609
5785	NP_001346644.1	XP_021326715.1	44.807	337	178	2	302	631
5786	NP_001346644.1	XP_021326715.1	40.874	389	217	6	118	497
5787	NP_001346644.1	XP_021326715.1	38.592	355	214	4	115	469
5788	NP_001346644.1	XP_021326715.1	45.105	286	130	1	354	612

5789	NP_001346644.1	XP_021326715.1	37.690	329	201	4	114	442
5790	NP_001346644.1	XP_021326715.1	25.743	101	75	0	113	213
5791	NP_001346644.1	XP_021322935.1	37.453	534	291	5	118	611
5792	NP_001346644.1	XP_021322935.1	38.060	536	287	6	116	610
5793	NP_001346644.1	XP_021322935.1	36.872	537	275	7	135	611
5794	NP_001346644.1	XP_021322935.1	38.593	526	287	6	116	609
5795	NP_001346644.1	XP_021322935.1	37.618	529	294	6	116	612
5796	NP_001346644.1	XP_021322935.1	36.057	563	303	8	116	627
5797	NP_001346644.1	XP_021322935.1	34.369	547	288	5	136	614
5798	NP_001346644.1	XP_021322935.1	37.500	520	289	6	124	611
5799	NP_001346644.1	XP_021322935.1	38.202	534	267	12	150	631
5800	NP_001346644.1	XP_021322935.1	36.312	526	299	6	118	611
5801	NP_001346644.1	XP_021322935.1	35.382	537	302	6	116	611
5802	NP_001346644.1	XP_021322935.1	36.092	568	308	10	115	631
5803	NP_001346644.1	XP_021322935.1	34.594	529	295	8	96	608
5804	NP_001346644.1	XP_021322935.1	43.881	335	186	2	275	609
5805	NP_001346644.1	XP_021322935.1	45.307	309	168	1	304	612
5806	NP_001346644.1	XP_021322935.1	40.351	285	162	2	354	631
5807	NP_001346644.1	XP_021322935.1	35.714	168	106	2	115	282
5808	NP_001346644.1	XP_009294396.1	36.454	502	315	4	113	614
5809	NP_001346644.1	XP_009294396.1	36.473	499	313	4	113	611
5810	NP_001346644.1	XP_009294396.1	37.684	475	287	6	108	577
5811	NP_001346644.1	XP_009294396.1	35.806	310	196	2	302	611
5812	NP_001346644.1	XP_009294396.1	33.798	287	162	3	353	612
5813	NP_001346644.1	XP_009294396.1	29.518	166	84	2	499	631
5814	NP_001346644.1	XP_017208889.1	37.725	501	287	5	136	617
5815	NP_001346644.1	XP_017208889.1	42.145	401	227	5	212	611
5816	NP_001346644.1	XP_017208889.1	43.671	316	178	0	297	612
5817	NP_001346644.1	XP_017208889.1	35.358	461	245	7	115	528
5818	NP_001346644.1	XP_017208889.1	35.946	370	211	6	124	474
5819	NP_001346644.1	XP_017208889.1	41.699	259	142	3	381	631
5820	NP_001346644.1	XP_017208889.1	33.106	293	173	3	113	387
5821	NP_001346644.1	XP_009298896.2	46.921	341	179	2	269	609
5822	NP_001346644.1	XP_009298896.2	48.089	314	162	1	298	611
5823	NP_001346644.1	XP_009298896.2	47.552	286	149	1	327	612
5824	NP_001346644.1	XP_009298896.2	38.950	362	207	6	118	469
5825	NP_001346644.1	XP_009298896.2	48.020	202	105	0	411	612
5826	NP_001346644.1	XP_009298896.2	37.269	271	167	3	114	384
5827	NP_001346644.1	XP_009298896.2	33.333	69	46	0	118	186
5828	NP_001346644.1	XP_021331239.1	47.962	319	164	2	267	585
5829	NP_001346644.1	XP_021331239.1	47.319	317	166	1	296	612
5830	NP_001346644.1	XP_021331239.1	40.373	322	188	4	124	445
5831	NP_001346644.1	XP_021331239.1	39.404	302	179	4	116	417

5832	NP_001346644.1	XP_021331239.1	36.437	247	154	3	114	360
5833	NP_001346644.1	XP_021331239.1	34.375	192	123	3	113	304
5834	NP_001346644.1	XP_021331239.1	35.404	161	102	2	116	276
5835	NP_001346644.1	XP_021331239.1	40.336	119	64	2	520	631
5836	NP_001346644.1	NP_001353568.1	35.984	503	258	6	166	608
5837	NP_001346644.1	NP_001353568.1	35.934	487	250	7	185	612
5838	NP_001346644.1	NP_001353568.1	34.608	497	291	8	115	580
5839	NP_001346644.1	NP_001353568.1	34.038	473	244	8	114	524
5840	NP_001346644.1	NP_001353568.1	40.667	300	163	4	293	578
5841	NP_001346644.1	NP_001353568.1	42.788	208	116	1	407	611
5842	NP_001346644.1	NP_001353568.1	39.777	269	133	5	386	631
5843	NP_001346644.1	NP_001353568.1	41.212	165	94	3	192	356
5844	NP_001346644.1	XP_021326985.1	45.723	339	182	2	270	608
5845	NP_001346644.1	XP_021326985.1	47.604	313	163	1	299	611
5846	NP_001346644.1	XP_021326985.1	43.363	339	188	4	158	496
5847	NP_001346644.1	XP_021326985.1	39.359	343	204	4	126	468
5848	NP_001346644.1	XP_021326985.1	43.599	289	155	3	354	635
5849	NP_001346644.1	XP_021326985.1	39.755	327	193	4	114	440
5850	NP_001346644.1	XP_021326985.1	35.349	215	136	3	113	327
5851	NP_001346644.1	XP_021330513.1	45.723	339	182	2	270	608
5852	NP_001346644.1	XP_021330513.1	47.604	313	163	1	299	611
5853	NP_001346644.1	XP_021330513.1	43.363	339	188	4	158	496
5854	NP_001346644.1	XP_021330513.1	39.359	343	204	4	126	468
5855	NP_001346644.1	XP_021330513.1	43.599	289	155	3	354	635
5856	NP_001346644.1	XP_021330513.1	39.755	327	193	4	114	440
5857	NP_001346644.1	XP_021330513.1	35.349	215	136	3	113	327
5858	NP_001346644.1	XP_017211261.1	50.649	308	151	1	302	609
5859	NP_001346644.1	XP_017211261.1	48.936	282	143	1	330	611
5860	NP_001346644.1	XP_017211261.1	45.425	306	163	4	192	497
5861	NP_001346644.1	XP_017211261.1	47.018	285	143	2	354	631
5862	NP_001346644.1	XP_017211261.1	37.725	334	195	6	118	442
5863	NP_001346644.1	XP_017211261.1	40.134	299	175	4	115	413
5864	NP_001346644.1	XP_017211261.1	38.017	242	147	3	114	355
5865	NP_001346644.1	XP_017211261.1	30.894	123	85	0	113	235
5866	NP_001346644.1	XP_017211261.1	27.027	74	54	0	113	186
5867	NP_001346644.1	NP_001124130.1	40.460	435	240	8	191	612
5868	NP_001346644.1	NP_001124130.1	41.032	407	223	6	217	611
5869	NP_001346644.1	NP_001124130.1	39.578	427	239	8	168	581
5870	NP_001346644.1	NP_001124130.1	38.313	415	237	8	152	553
5871	NP_001346644.1	NP_001124130.1	40.968	310	179	4	304	612
5872	NP_001346644.1	NP_001124130.1	34.824	313	159	7	114	413
5873	NP_001346644.1	NP_001124130.1	39.823	113	67	1	499	611
5874	NP_001346644.1	XP_021330818.1	44.809	366	199	3	244	609

5875	NP_001346644.1	XP_021330818.1	44.909	383	206	5	143	525
5876	NP_001346644.1	XP_021330818.1	46.129	310	166	1	302	611
5877	NP_001346644.1	XP_021330818.1	43.363	339	190	2	273	611
5878	NP_001346644.1	XP_021330818.1	37.465	355	218	4	115	469
5879	NP_001346644.1	XP_021330818.1	42.857	140	73	3	499	631
5880	NP_001346644.1	XP_021330818.1	25.773	97	72	0	118	214
5881	NP_001346644.1	XP_017208888.1	43.171	410	225	5	202	611
5882	NP_001346644.1	XP_017208888.1	42.636	387	218	4	169	555
5883	NP_001346644.1	XP_017208888.1	39.050	379	227	4	149	527
5884	NP_001346644.1	XP_017208888.1	42.154	325	180	4	305	628
5885	NP_001346644.1	XP_017208888.1	38.630	365	220	4	136	500
5886	NP_001346644.1	XP_017208888.1	36.798	356	221	4	116	471
5887	NP_001346644.1	XP_017208888.1	34.426	244	157	3	115	358
5888	NP_001346644.1	XP_017211108.2	44.142	367	197	6	215	581
5889	NP_001346644.1	XP_017211108.2	43.785	354	186	4	264	609
5890	NP_001346644.1	XP_017211108.2	41.689	367	206	6	159	525
5891	NP_001346644.1	XP_017211108.2	47.350	283	148	1	330	612
5892	NP_001346644.1	XP_017211108.2	45.907	281	144	3	358	631
5893	NP_001346644.1	XP_017211108.2	36.620	355	217	6	115	469
5894	NP_001346644.1	XP_017211108.2	45.283	265	136	2	348	612
5895	NP_001346644.1	XP_017211108.2	34.926	272	159	7	88	355
5896	NP_001346644.1	XP_017211108.2	28.125	128	88	2	115	242
5897	NP_001346644.1	XP_017211304.1	38.731	457	276	4	156	612
5898	NP_001346644.1	XP_017211304.1	38.004	471	287	5	143	612
5899	NP_001346644.1	XP_017211304.1	33.708	534	316	5	115	614
5900	NP_001346644.1	XP_017211304.1	37.413	433	261	4	206	631
5901	NP_001346644.1	XP_017211304.1	30.128	468	263	5	114	520
5902	NP_001346644.1	NP_001128616.1	37.022	497	305	6	118	614
5903	NP_001346644.1	NP_001128616.1	35.417	528	307	6	112	611
5904	NP_001346644.1	NP_001128616.1	36.585	492	306	5	118	609
5905	NP_001346644.1	NP_001128616.1	36.865	453	277	7	157	608
5906	NP_001346644.1	NP_001128616.1	37.772	368	224	3	244	611
5907	NP_001346644.1	NP_001128616.1	33.333	75	50	0	115	189
5908	NP_001346644.1	XP_017208652.1	41.546	414	220	4	215	609
5909	NP_001346644.1	XP_017208652.1	40.580	414	224	4	187	581
5910	NP_001346644.1	XP_017208652.1	41.487	417	220	5	157	553
5911	NP_001346644.1	XP_017208652.1	39.234	418	227	6	244	640
5912	NP_001346644.1	XP_017208652.1	37.931	377	220	5	103	469
5913	NP_001346644.1	XP_017208652.1	42.086	278	142	1	353	611
5914	NP_001346644.1	XP_017208652.1	35.593	354	223	5	90	442
5915	NP_001346644.1	XP_021331434.1	47.917	336	172	3	246	581
5916	NP_001346644.1	XP_021331434.1	48.377	308	158	1	304	611
5917	NP_001346644.1	XP_021331434.1	46.269	335	178	2	275	609

5918	NP_001346644.1	XP_021331434.1	44.510	337	183	4	217	553
5919	NP_001346644.1	XP_021331434.1	44.880	332	179	4	166	497
5920	NP_001346644.1	XP_021331434.1	45.277	307	160	2	332	631
5921	NP_001346644.1	XP_021331434.1	37.690	329	201	4	113	441
5922	NP_001346644.1	XP_021331434.1	25.510	98	70	1	89	186
5923	NP_001346644.1	XP_017210198.1	45.479	365	196	3	246	610
5924	NP_001346644.1	XP_017210198.1	43.956	364	200	4	191	554
5925	NP_001346644.1	XP_017210198.1	43.288	365	196	5	275	631
5926	NP_001346644.1	XP_017210198.1	41.551	361	207	4	166	526
5927	NP_001346644.1	XP_017210198.1	37.989	358	218	4	113	470
5928	NP_001346644.1	XP_017210198.1	43.382	272	153	1	354	625
5929	NP_001346644.1	NP_001012507.1	39.950	398	234	4	215	610
5930	NP_001346644.1	NP_001012507.1	34.816	517	300	7	124	607
5931	NP_001346644.1	NP_001012507.1	35.477	482	273	7	165	612
5932	NP_001346644.1	NP_001012507.1	39.055	402	234	5	244	636
5933	NP_001346644.1	NP_001012507.1	34.382	477	278	6	166	611
5934	NP_001346644.1	NP_001012507.1	34.413	494	289	6	115	577
5935	NP_001346644.1	NP_001012507.1	28.986	69	49	0	113	181
5936	NP_001346644.1	XP_009301295.1	41.626	406	233	4	215	620
5937	NP_001346644.1	XP_009301295.1	41.439	403	222	5	226	617
5938	NP_001346644.1	XP_009301295.1	41.353	399	230	4	184	582
5939	NP_001346644.1	XP_009301295.1	42.593	378	213	4	177	554
5940	NP_001346644.1	XP_009301295.1	39.153	378	226	4	156	533
5941	NP_001346644.1	XP_009301295.1	38.875	391	233	5	108	498
5942	NP_001346644.1	XP_009301295.1	39.245	265	153	2	374	631
5943	NP_001346644.1	XP_009301295.1	35.507	276	173	4	114	389
5944	NP_001346644.1	XP_009294078.1	42.588	425	240	4	185	609
5945	NP_001346644.1	XP_009294078.1	42.714	398	224	4	215	612
5946	NP_001346644.1	XP_009294078.1	40.566	424	248	4	158	581
5947	NP_001346644.1	XP_009294078.1	41.642	341	170	2	300	612
5948	NP_001346644.1	XP_009294078.1	37.713	411	252	4	115	525
5949	NP_001346644.1	XP_009294078.1	45.296	287	156	1	325	611
5950	NP_001346644.1	XP_009294078.1	42.857	147	84	0	466	612
5951	NP_001346644.1	XP_009294078.1	35.165	91	52	1	550	633
5952	NP_001346644.1	XP_009301296.1	41.626	406	233	4	215	620
5953	NP_001346644.1	XP_009301296.1	42.440	377	214	3	241	617
5954	NP_001346644.1	XP_009301296.1	41.353	399	230	4	184	582
5955	NP_001346644.1	XP_009301296.1	42.593	378	213	4	177	554
5956	NP_001346644.1	XP_009301296.1	39.153	378	226	4	156	533
5957	NP_001346644.1	XP_009301296.1	38.875	391	233	5	108	498
5958	NP_001346644.1	XP_009301296.1	39.245	265	153	2	374	631
5959	NP_001346644.1	XP_009301296.1	35.507	276	173	4	114	389
5960	NP_001346644.1	NP_001121715.1	39.203	477	258	5	166	613

5961	NP_001346644.1	NP_001121715.1	35.807	539	280	7	136	611
5962	NP_001346644.1	NP_001121715.1	35.214	585	304	9	118	631
5963	NP_001346644.1	NP_001121715.1	39.414	444	242	7	191	611
5964	NP_001346644.1	NP_001121715.1	35.897	468	266	6	115	552
5965	NP_001346644.1	NP_001121715.1	37.468	387	191	4	275	611
5966	NP_001346644.1	NP_001121715.1	37.500	264	151	4	381	631
5967	NP_001346644.1	XP_017210610.1	47.302	315	165	1	299	613
5968	NP_001346644.1	XP_017210610.1	45.016	311	168	3	241	551
5969	NP_001346644.1	XP_017210610.1	40.303	330	184	5	118	438
5970	NP_001346644.1	XP_017210610.1	44.922	256	133	3	383	631
5971	NP_001346644.1	XP_017210610.1	38.776	294	177	3	113	406
5972	NP_001346644.1	XP_017210610.1	38.148	270	164	3	113	382
5973	NP_001346644.1	XP_005170433.2	41.204	432	238	4	191	609
5974	NP_001346644.1	XP_005170433.2	41.176	408	224	4	217	611
5975	NP_001346644.1	XP_005170433.2	41.962	367	209	4	187	553
5976	NP_001346644.1	XP_005170433.2	39.947	378	204	4	275	631
5977	NP_001346644.1	XP_005170433.2	41.160	362	209	4	136	497
5978	NP_001346644.1	XP_005170433.2	37.465	355	218	4	115	469
5979	NP_001346644.1	XP_005170433.2	35.662	272	172	3	113	384
5980	NP_001346644.1	XP_017211308.1	41.469	422	243	4	191	612
5981	NP_001346644.1	XP_017211308.1	39.955	443	262	4	166	608
5982	NP_001346644.1	XP_017211308.1	37.632	473	289	5	136	608
5983	NP_001346644.1	XP_017211308.1	40.706	425	234	6	217	641
5984	NP_001346644.1	XP_017211308.1	34.979	466	297	5	115	580
5985	NP_001346644.1	XP_017211308.1	36.709	316	179	7	144	459
5986	NP_001346644.1	XP_017211308.1	36.644	292	180	4	113	404
5987	NP_001346644.1	XP_017211307.1	41.469	422	243	4	191	612
5988	NP_001346644.1	XP_017211307.1	39.955	443	262	4	166	608
5989	NP_001346644.1	XP_017211307.1	37.632	473	289	5	136	608
5990	NP_001346644.1	XP_017211307.1	40.706	425	234	6	217	641
5991	NP_001346644.1	XP_017211307.1	34.979	466	297	5	115	580
5992	NP_001346644.1	XP_017211307.1	36.709	316	179	7	144	459
5993	NP_001346644.1	XP_017211307.1	36.644	292	180	4	113	404
5994	NP_001346644.1	NP_001032484.1	36.419	497	308	6	118	614
5995	NP_001346644.1	NP_001032484.1	34.291	557	327	7	83	611
5996	NP_001346644.1	NP_001032484.1	36.382	492	307	5	118	609
5997	NP_001346644.1	NP_001032484.1	36.564	454	279	7	156	608
5998	NP_001346644.1	NP_001032484.1	37.358	439	269	5	119	557
5999	NP_001346644.1	NP_001032484.1	37.500	368	225	3	244	611
6000	NP_001346644.1	NP_001032484.1	36.293	259	161	2	355	612
6001	NP_001346644.1	NP_001032484.1	34.139	331	212	5	115	445
6002	NP_001346644.1	NP_001032484.1	36.397	272	168	4	118	389
6003	NP_001346644.1	XP_005170468.3	42.785	395	222	4	215	609

6004	NP_001346644.1	XP_005170468.3	42.268	388	220	4	166	553
6005	NP_001346644.1	XP_005170468.3	40.554	397	232	4	185	581
6006	NP_001346644.1	XP_005170468.3	41.622	370	213	3	242	611
6007	NP_001346644.1	XP_005170468.3	44.089	313	174	1	300	612
6008	NP_001346644.1	XP_005170468.3	38.205	390	237	4	136	525
6009	NP_001346644.1	XP_005170468.3	39.172	314	183	2	325	631
6010	NP_001346644.1	XP_005170468.3	36.719	384	239	4	114	497
6011	NP_001346644.1	NP_001120944.1	45.000	340	185	2	273	612
6012	NP_001346644.1	NP_001120944.1	45.161	341	183	4	215	555
6013	NP_001346644.1	NP_001120944.1	42.029	345	196	4	156	500
6014	NP_001346644.1	NP_001120944.1	45.307	309	161	3	330	631
6015	NP_001346644.1	NP_001120944.1	39.669	363	206	6	118	471
6016	NP_001346644.1	NP_001120944.1	39.024	328	196	4	116	443
6017	NP_001346644.1	NP_001120944.1	32.450	151	101	1	114	264
6018	NP_001346644.1	NP_001120944.1	27.027	74	54	0	116	189
6019	NP_001346644.1	XP_021329627.1	42.790	423	238	4	159	581
6020	NP_001346644.1	XP_021329627.1	43.325	397	221	4	215	611
6021	NP_001346644.1	XP_021329627.1	41.608	423	243	4	187	609
6022	NP_001346644.1	XP_021329627.1	38.929	411	247	4	115	525
6023	NP_001346644.1	XP_021329627.1	41.502	253	140	3	386	631
6024	NP_001346644.1	XP_021329627.1	36.900	271	168	3	114	384
6025	NP_001346644.1	XP_017211130.1	41.546	414	227	9	177	581
6026	NP_001346644.1	XP_017211130.1	40.625	384	216	5	235	609
6027	NP_001346644.1	XP_017211130.1	49.296	284	142	2	330	612
6028	NP_001346644.1	XP_017211130.1	40.625	384	222	6	143	525
6029	NP_001346644.1	XP_017211130.1	38.630	365	219	5	134	497
6030	NP_001346644.1	XP_017211130.1	31.887	461	290	8	17	469
6031	NP_001346644.1	XP_017211130.1	44.094	254	133	3	386	631
6032	NP_001346644.1	XP_017211130.1	43.458	214	113	1	406	611
6033	NP_001346644.1	XP_021330549.1	48.000	325	168	1	287	611
6034	NP_001346644.1	XP_021330549.1	45.245	347	186	3	262	606
6035	NP_001346644.1	XP_021330549.1	43.020	351	195	4	230	578
6036	NP_001346644.1	XP_021330549.1	48.443	289	148	1	324	612
6037	NP_001346644.1	XP_021330549.1	38.551	345	206	5	124	466
6038	NP_001346644.1	XP_021330549.1	37.846	325	196	5	116	438
6039	NP_001346644.1	XP_021330549.1	36.644	292	182	3	113	404
6040	NP_001346644.1	XP_021330548.1	48.000	325	168	1	287	611
6041	NP_001346644.1	XP_021330548.1	45.245	347	186	3	262	606
6042	NP_001346644.1	XP_021330548.1	43.020	351	195	4	230	578
6043	NP_001346644.1	XP_021330548.1	48.443	289	148	1	324	612
6044	NP_001346644.1	XP_021330548.1	38.551	345	206	5	124	466
6045	NP_001346644.1	XP_021330548.1	37.846	325	196	5	116	438
6046	NP_001346644.1	XP_021330548.1	36.644	292	182	3	113	404

6047	NP_001346644.1	XP_017210088.1	48.000	325	168	1	287	611
6048	NP_001346644.1	XP_017210088.1	45.245	347	186	3	262	606
6049	NP_001346644.1	XP_017210088.1	43.020	351	195	4	230	578
6050	NP_001346644.1	XP_017210088.1	48.443	289	148	1	324	612
6051	NP_001346644.1	XP_017210088.1	38.551	345	206	5	124	466
6052	NP_001346644.1	XP_017210088.1	37.846	325	196	5	116	438
6053	NP_001346644.1	XP_017210088.1	36.644	292	182	3	113	404
6054	NP_001346644.1	XP_021330547.1	48.000	325	168	1	287	611
6055	NP_001346644.1	XP_021330547.1	45.245	347	186	3	262	606
6056	NP_001346644.1	XP_021330547.1	43.020	351	195	4	230	578
6057	NP_001346644.1	XP_021330547.1	48.443	289	148	1	324	612
6058	NP_001346644.1	XP_021330547.1	38.551	345	206	5	124	466
6059	NP_001346644.1	XP_021330547.1	37.846	325	196	5	116	438
6060	NP_001346644.1	XP_021330547.1	36.644	292	182	3	113	404
6061	NP_001346644.1	XP_021325060.1	39.085	481	261	6	157	610
6062	NP_001346644.1	XP_021325060.1	35.802	486	276	8	115	572
6063	NP_001346644.1	XP_021325060.1	36.842	399	232	6	136	520
6064	NP_001346644.1	XP_021325060.1	38.372	344	181	4	302	617
6065	NP_001346644.1	XP_021325060.1	38.989	277	149	5	353	626
6066	NP_001346644.1	XP_021327018.1	48.000	325	168	1	287	611
6067	NP_001346644.1	XP_021327018.1	45.245	347	186	3	262	606
6068	NP_001346644.1	XP_021327018.1	43.020	351	195	4	230	578
6069	NP_001346644.1	XP_021327018.1	48.443	289	148	1	324	612
6070	NP_001346644.1	XP_021327018.1	38.551	345	206	5	124	466
6071	NP_001346644.1	XP_021327018.1	37.846	325	196	5	116	438
6072	NP_001346644.1	XP_021327018.1	34.317	271	173	4	113	381
6073	NP_001346644.1	XP_021322178.1	43.829	397	219	4	215	611
6074	NP_001346644.1	XP_021322178.1	42.424	396	218	4	244	632
6075	NP_001346644.1	XP_021322178.1	39.950	398	235	4	130	527
6076	NP_001346644.1	XP_021322178.1	38.860	386	232	4	115	500
6077	NP_001346644.1	XP_021322178.1	38.079	302	183	4	114	415
6078	NP_001346644.1	XP_021331425.1	43.529	340	190	2	273	612
6079	NP_001346644.1	XP_021331425.1	42.690	342	193	3	244	585
6080	NP_001346644.1	XP_021331425.1	43.440	343	190	4	187	529
6081	NP_001346644.1	XP_021331425.1	43.149	343	191	4	215	557
6082	NP_001346644.1	XP_021331425.1	41.108	343	198	4	159	501
6083	NP_001346644.1	XP_021331425.1	45.560	259	140	1	354	612
6084	NP_001346644.1	XP_021331425.1	37.838	333	203	4	113	445
6085	NP_001346644.1	XP_005174044.1	35.857	502	316	5	113	614
6086	NP_001346644.1	XP_005174044.1	37.243	486	299	5	119	604
6087	NP_001346644.1	XP_005174044.1	35.317	521	305	5	118	611
6088	NP_001346644.1	XP_005174044.1	37.500	368	225	3	244	611
6089	NP_001346644.1	XP_005174044.1	35.312	337	208	4	302	631

6090	NP_001346644.1	XP_005174044.1	33.779	299	193	4	115	413
6091	NP_001346644.1	XP_021325340.1	42.607	399	225	4	185	583
6092	NP_001346644.1	XP_021325340.1	34.955	555	323	9	105	631
6093	NP_001346644.1	XP_021325340.1	42.714	398	224	4	215	612
6094	NP_001346644.1	XP_021325340.1	43.784	370	205	3	242	611
6095	NP_001346644.1	XP_021325340.1	34.363	518	317	6	113	611
6096	NP_001346644.1	XP_021325340.1	35.135	518	301	7	116	607
6097	NP_001346644.1	XP_021325340.1	38.974	390	234	4	166	555
6098	NP_001346644.1	XP_021325340.1	43.548	310	174	1	302	611
6099	NP_001346644.1	XP_021325340.1	32.887	523	300	7	136	611
6100	NP_001346644.1	XP_021325340.1	42.014	288	166	1	325	612
6101	NP_001346644.1	XP_021325340.1	38.286	350	212	4	122	471
6102	NP_001346644.1	XP_021325340.1	39.884	173	97	1	466	631
6103	NP_001346644.1	XP_017209955.1	42.350	366	208	3	244	609
6104	NP_001346644.1	XP_017209955.1	41.779	371	214	2	241	611
6105	NP_001346644.1	XP_017209955.1	40.576	382	222	5	144	525
6106	NP_001346644.1	XP_017209955.1	43.354	316	175	2	302	617
6107	NP_001346644.1	XP_017209955.1	38.187	364	221	4	134	497
6108	NP_001346644.1	XP_017209955.1	46.640	253	127	2	386	631
6109	NP_001346644.1	XP_017209955.1	36.056	355	223	4	115	469
6110	NP_001346644.1	XP_017209955.1	36.213	301	189	3	114	414
6111	NP_001346644.1	XP_017208863.2	37.170	530	297	6	114	611
6112	NP_001346644.1	XP_017208863.2	37.689	528	293	6	116	611
6113	NP_001346644.1	XP_017208863.2	35.917	529	305	5	116	613
6114	NP_001346644.1	XP_017208863.2	38.767	503	269	7	141	611
6115	NP_001346644.1	XP_017208863.2	36.576	514	255	8	185	631
6116	NP_001346644.1	XP_017208863.2	41.962	367	210	3	242	608
6117	NP_001346644.1	XP_017208863.2	42.744	379	210	5	202	580
6118	NP_001346644.1	XP_017208863.2	40.051	392	230	5	185	576
6119	NP_001346644.1	XP_017208863.2	42.398	342	195	2	271	612
6120	NP_001346644.1	XP_017208863.2	44.792	288	158	1	325	612
6121	NP_001346644.1	XP_017208863.2	42.812	313	167	3	328	631
6122	NP_001346644.1	XP_017208863.2	36.508	378	235	5	115	492
6123	NP_001346644.1	XP_017208863.2	23.973	146	111	0	115	260
6124	NP_001346644.1	XP_021331477.1	42.278	395	222	5	215	608
6125	NP_001346644.1	XP_021331477.1	41.667	396	225	6	158	552
6126	NP_001346644.1	XP_021331477.1	41.570	344	198	3	269	612
6127	NP_001346644.1	XP_021331477.1	37.183	355	217	5	115	468
6128	NP_001346644.1	XP_021331477.1	30.769	208	137	2	90	291
6129	NP_001346644.1	XP_017211311.1	42.278	395	222	5	215	608
6130	NP_001346644.1	XP_017211311.1	41.667	396	225	6	158	552
6131	NP_001346644.1	XP_017211311.1	41.570	344	198	3	269	612
6132	NP_001346644.1	XP_017211311.1	37.183	355	217	5	115	468

6133	NP_001346644.1	XP_017211311.1	30.769	208	137	2	90	291
6134	NP_001346644.1	XP_021331394.1	46.154	338	179	3	275	612
6135	NP_001346644.1	XP_021331394.1	46.326	313	167	1	304	616
6136	NP_001346644.1	XP_021331394.1	45.238	336	179	5	217	552
6137	NP_001346644.1	XP_021331394.1	43.582	335	185	4	246	580
6138	NP_001346644.1	XP_021331394.1	42.515	334	187	5	191	524
6139	NP_001346644.1	XP_021331394.1	41.692	331	188	5	166	496
6140	NP_001346644.1	XP_021331394.1	38.623	334	200	5	135	468
6141	NP_001346644.1	XP_021331394.1	36.923	325	200	5	116	440
6142	NP_001346644.1	XP_005161595.2	44.892	372	202	3	241	612
6143	NP_001346644.1	XP_005161595.2	43.280	372	207	4	184	555
6144	NP_001346644.1	XP_005161595.2	43.767	361	199	4	167	527
6145	NP_001346644.1	XP_005161595.2	44.377	329	181	2	287	614
6146	NP_001346644.1	XP_005161595.2	38.936	357	214	4	115	471
6147	NP_001346644.1	XP_005161595.2	38.202	356	209	6	88	441
6148	NP_001346644.1	XP_005161595.2	37.906	277	161	4	114	386
6149	NP_001346644.1	XP_017211125.2	47.195	303	159	1	301	603
6150	NP_001346644.1	XP_017211125.2	46.053	304	162	2	272	575
6151	NP_001346644.1	XP_017211125.2	48.239	284	146	1	329	612
6152	NP_001346644.1	XP_017211125.2	43.137	306	170	4	158	463
6153	NP_001346644.1	XP_017211125.2	38.206	301	182	4	135	435
6154	NP_001346644.1	XP_017211125.2	36.610	295	184	3	116	410
6155	NP_001346644.1	XP_017211125.2	23.656	93	71	0	113	205
6156	NP_001346644.1	XP_021326992.1	45.266	338	183	2	270	607
6157	NP_001346644.1	XP_021326992.1	45.000	340	183	4	212	551
6158	NP_001346644.1	XP_021326992.1	45.541	314	170	1	299	612
6159	NP_001346644.1	XP_021326992.1	41.056	341	195	6	156	495
6160	NP_001346644.1	XP_021326992.1	43.269	312	169	3	327	631
6161	NP_001346644.1	XP_021326992.1	40.541	333	194	4	135	467
6162	NP_001346644.1	XP_021326992.1	43.860	285	152	3	354	631
6163	NP_001346644.1	XP_021326992.1	36.644	292	182	3	115	406
6164	NP_001346644.1	XP_021326992.1	35.565	239	151	3	118	356
6165	NP_001346644.1	XP_021326991.1	45.266	338	183	2	270	607
6166	NP_001346644.1	XP_021326991.1	45.000	340	183	4	212	551
6167	NP_001346644.1	XP_021326991.1	45.541	314	170	1	299	612
6168	NP_001346644.1	XP_021326991.1	41.056	341	195	6	156	495
6169	NP_001346644.1	XP_021326991.1	43.269	312	169	3	327	631
6170	NP_001346644.1	XP_021326991.1	40.541	333	194	4	135	467
6171	NP_001346644.1	XP_021326991.1	43.860	285	152	3	354	631
6172	NP_001346644.1	XP_021326991.1	36.644	292	182	3	115	406
6173	NP_001346644.1	XP_021326991.1	35.565	239	151	3	118	356
6174	NP_001346644.1	XP_021326990.1	45.266	338	183	2	270	607
6175	NP_001346644.1	XP_021326990.1	45.000	340	183	4	212	551

6176	NP_001346644.1	XP_021326990.1	45.541	314	170	1	299	612
6177	NP_001346644.1	XP_021326990.1	41.056	341	195	6	156	495
6178	NP_001346644.1	XP_021326990.1	43.269	312	169	3	327	631
6179	NP_001346644.1	XP_021326990.1	40.541	333	194	4	135	467
6180	NP_001346644.1	XP_021326990.1	43.860	285	152	3	354	631
6181	NP_001346644.1	XP_021326990.1	36.644	292	182	3	115	406
6182	NP_001346644.1	XP_021326990.1	35.565	239	151	3	118	356
6183	NP_001346644.1	XP_021326989.1	45.266	338	183	2	270	607
6184	NP_001346644.1	XP_021326989.1	45.000	340	183	4	212	551
6185	NP_001346644.1	XP_021326989.1	45.541	314	170	1	299	612
6186	NP_001346644.1	XP_021326989.1	41.056	341	195	6	156	495
6187	NP_001346644.1	XP_021326989.1	43.269	312	169	3	327	631
6188	NP_001346644.1	XP_021326989.1	40.541	333	194	4	135	467
6189	NP_001346644.1	XP_021326989.1	43.860	285	152	3	354	631
6190	NP_001346644.1	XP_021326989.1	36.644	292	182	3	115	406
6191	NP_001346644.1	XP_021326989.1	35.565	239	151	3	118	356
6192	NP_001346644.1	XP_021326988.1	45.266	338	183	2	270	607
6193	NP_001346644.1	XP_021326988.1	45.000	340	183	4	212	551
6194	NP_001346644.1	XP_021326988.1	45.541	314	170	1	299	612
6195	NP_001346644.1	XP_021326988.1	41.056	341	195	6	156	495
6196	NP_001346644.1	XP_021326988.1	43.269	312	169	3	327	631
6197	NP_001346644.1	XP_021326988.1	40.541	333	194	4	135	467
6198	NP_001346644.1	XP_021326988.1	43.860	285	152	3	354	631
6199	NP_001346644.1	XP_021326988.1	36.644	292	182	3	115	406
6200	NP_001346644.1	XP_021326988.1	35.565	239	151	3	118	356
6201	NP_001346644.1	XP_021326987.1	45.266	338	183	2	270	607
6202	NP_001346644.1	XP_021326987.1	45.000	340	183	4	212	551
6203	NP_001346644.1	XP_021326987.1	45.541	314	170	1	299	612
6204	NP_001346644.1	XP_021326987.1	41.056	341	195	6	156	495
6205	NP_001346644.1	XP_021326987.1	43.269	312	169	3	327	631
6206	NP_001346644.1	XP_021326987.1	40.541	333	194	4	135	467
6207	NP_001346644.1	XP_021326987.1	43.860	285	152	3	354	631
6208	NP_001346644.1	XP_021326987.1	36.644	292	182	3	115	406
6209	NP_001346644.1	XP_021326987.1	35.565	239	151	3	118	356
6210	NP_001346644.1	XP_021326986.1	45.266	338	183	2	270	607
6211	NP_001346644.1	XP_021326986.1	45.000	340	183	4	212	551
6212	NP_001346644.1	XP_021326986.1	45.541	314	170	1	299	612
6213	NP_001346644.1	XP_021326986.1	41.056	341	195	6	156	495
6214	NP_001346644.1	XP_021326986.1	43.269	312	169	3	327	631
6215	NP_001346644.1	XP_021326986.1	40.541	333	194	4	135	467
6216	NP_001346644.1	XP_021326986.1	43.860	285	152	3	354	631
6217	NP_001346644.1	XP_021326986.1	36.644	292	182	3	115	406
6218	NP_001346644.1	XP_021326986.1	35.565	239	151	3	118	356

6219	NP_001346644.1	XP_021330529.1	45.266	338	183	2	270	607
6220	NP_001346644.1	XP_021330529.1	45.000	340	183	4	212	551
6221	NP_001346644.1	XP_021330529.1	45.541	314	170	1	299	612
6222	NP_001346644.1	XP_021330529.1	41.056	341	195	6	156	495
6223	NP_001346644.1	XP_021330529.1	43.269	312	169	3	327	631
6224	NP_001346644.1	XP_021330529.1	40.541	333	194	4	135	467
6225	NP_001346644.1	XP_021330529.1	43.860	285	152	3	354	631
6226	NP_001346644.1	XP_021330529.1	36.644	292	182	3	115	406
6227	NP_001346644.1	XP_021330529.1	35.565	239	151	3	118	356
6228	NP_001346644.1	XP_021330528.1	45.266	338	183	2	270	607
6229	NP_001346644.1	XP_021330528.1	45.000	340	183	4	212	551
6230	NP_001346644.1	XP_021330528.1	45.541	314	170	1	299	612
6231	NP_001346644.1	XP_021330528.1	41.056	341	195	6	156	495
6232	NP_001346644.1	XP_021330528.1	43.269	312	169	3	327	631
6233	NP_001346644.1	XP_021330528.1	40.541	333	194	4	135	467
6234	NP_001346644.1	XP_021330528.1	43.860	285	152	3	354	631
6235	NP_001346644.1	XP_021330528.1	36.644	292	182	3	115	406
6236	NP_001346644.1	XP_021330528.1	35.565	239	151	3	118	356
6237	NP_001346644.1	XP_021330527.1	45.266	338	183	2	270	607
6238	NP_001346644.1	XP_021330527.1	45.000	340	183	4	212	551
6239	NP_001346644.1	XP_021330527.1	45.541	314	170	1	299	612
6240	NP_001346644.1	XP_021330527.1	41.056	341	195	6	156	495
6241	NP_001346644.1	XP_021330527.1	43.269	312	169	3	327	631
6242	NP_001346644.1	XP_021330527.1	40.541	333	194	4	135	467
6243	NP_001346644.1	XP_021330527.1	43.860	285	152	3	354	631
6244	NP_001346644.1	XP_021330527.1	36.644	292	182	3	115	406
6245	NP_001346644.1	XP_021330527.1	35.565	239	151	3	118	356
6246	NP_001346644.1	XP_021330526.1	45.266	338	183	2	270	607
6247	NP_001346644.1	XP_021330526.1	45.000	340	183	4	212	551
6248	NP_001346644.1	XP_021330526.1	45.541	314	170	1	299	612
6249	NP_001346644.1	XP_021330526.1	41.056	341	195	6	156	495
6250	NP_001346644.1	XP_021330526.1	43.269	312	169	3	327	631
6251	NP_001346644.1	XP_021330526.1	40.541	333	194	4	135	467
6252	NP_001346644.1	XP_021330526.1	43.860	285	152	3	354	631
6253	NP_001346644.1	XP_021330526.1	36.644	292	182	3	115	406
6254	NP_001346644.1	XP_021330526.1	35.565	239	151	3	118	356
6255	NP_001346644.1	XP_021330525.1	45.266	338	183	2	270	607
6256	NP_001346644.1	XP_021330525.1	45.000	340	183	4	212	551
6257	NP_001346644.1	XP_021330525.1	45.541	314	170	1	299	612
6258	NP_001346644.1	XP_021330525.1	41.056	341	195	6	156	495
6259	NP_001346644.1	XP_021330525.1	43.269	312	169	3	327	631
6260	NP_001346644.1	XP_021330525.1	40.541	333	194	4	135	467
6261	NP_001346644.1	XP_021330525.1	43.860	285	152	3	354	631

6262	NP_001346644.1	XP_021330525.1	36.644	292	182	3	115	406
6263	NP_001346644.1	XP_021330525.1	35.565	239	151	3	118	356
6264	NP_001346644.1	XP_021330524.1	45.266	338	183	2	270	607
6265	NP_001346644.1	XP_021330524.1	45.000	340	183	4	212	551
6266	NP_001346644.1	XP_021330524.1	45.541	314	170	1	299	612
6267	NP_001346644.1	XP_021330524.1	41.056	341	195	6	156	495
6268	NP_001346644.1	XP_021330524.1	43.269	312	169	3	327	631
6269	NP_001346644.1	XP_021330524.1	40.541	333	194	4	135	467
6270	NP_001346644.1	XP_021330524.1	43.860	285	152	3	354	631
6271	NP_001346644.1	XP_021330524.1	36.644	292	182	3	115	406
6272	NP_001346644.1	XP_021330524.1	35.565	239	151	3	118	356
6273	NP_001346644.1	XP_021330523.1	45.266	338	183	2	270	607
6274	NP_001346644.1	XP_021330523.1	45.000	340	183	4	212	551
6275	NP_001346644.1	XP_021330523.1	45.541	314	170	1	299	612
6276	NP_001346644.1	XP_021330523.1	41.056	341	195	6	156	495
6277	NP_001346644.1	XP_021330523.1	43.269	312	169	3	327	631
6278	NP_001346644.1	XP_021330523.1	40.541	333	194	4	135	467
6279	NP_001346644.1	XP_021330523.1	43.860	285	152	3	354	631
6280	NP_001346644.1	XP_021330523.1	36.644	292	182	3	115	406
6281	NP_001346644.1	XP_021330523.1	35.565	239	151	3	118	356
6282	NP_001346644.1	XP_021326998.1	45.266	338	183	2	270	607
6283	NP_001346644.1	XP_021326998.1	45.000	340	183	4	212	551
6284	NP_001346644.1	XP_021326998.1	45.541	314	170	1	299	612
6285	NP_001346644.1	XP_021326998.1	41.056	341	195	6	156	495
6286	NP_001346644.1	XP_021326998.1	43.269	312	169	3	327	631
6287	NP_001346644.1	XP_021326998.1	40.541	333	194	4	135	467
6288	NP_001346644.1	XP_021326998.1	43.860	285	152	3	354	631
6289	NP_001346644.1	XP_021326998.1	36.644	292	182	3	115	406
6290	NP_001346644.1	XP_021326998.1	35.565	239	151	3	118	356
6291	NP_001346644.1	XP_021326997.1	45.266	338	183	2	270	607
6292	NP_001346644.1	XP_021326997.1	45.000	340	183	4	212	551
6293	NP_001346644.1	XP_021326997.1	45.541	314	170	1	299	612
6294	NP_001346644.1	XP_021326997.1	41.056	341	195	6	156	495
6295	NP_001346644.1	XP_021326997.1	43.269	312	169	3	327	631
6296	NP_001346644.1	XP_021326997.1	40.541	333	194	4	135	467
6297	NP_001346644.1	XP_021326997.1	43.860	285	152	3	354	631
6298	NP_001346644.1	XP_021326997.1	36.644	292	182	3	115	406
6299	NP_001346644.1	XP_021326997.1	35.565	239	151	3	118	356
6300	NP_001346644.1	XP_021326996.1	45.266	338	183	2	270	607
6301	NP_001346644.1	XP_021326996.1	45.000	340	183	4	212	551
6302	NP_001346644.1	XP_021326996.1	45.541	314	170	1	299	612
6303	NP_001346644.1	XP_021326996.1	41.056	341	195	6	156	495
6304	NP_001346644.1	XP_021326996.1	43.269	312	169	3	327	631

6305	NP_001346644.1	XP_021326996.1	40.541	333	194	4	135	467
6306	NP_001346644.1	XP_021326996.1	43.860	285	152	3	354	631
6307	NP_001346644.1	XP_021326996.1	36.644	292	182	3	115	406
6308	NP_001346644.1	XP_021326996.1	35.565	239	151	3	118	356
6309	NP_001346644.1	XP_021326995.1	45.266	338	183	2	270	607
6310	NP_001346644.1	XP_021326995.1	45.000	340	183	4	212	551
6311	NP_001346644.1	XP_021326995.1	45.541	314	170	1	299	612
6312	NP_001346644.1	XP_021326995.1	41.056	341	195	6	156	495
6313	NP_001346644.1	XP_021326995.1	43.269	312	169	3	327	631
6314	NP_001346644.1	XP_021326995.1	40.541	333	194	4	135	467
6315	NP_001346644.1	XP_021326995.1	43.860	285	152	3	354	631
6316	NP_001346644.1	XP_021326995.1	36.644	292	182	3	115	406
6317	NP_001346644.1	XP_021326995.1	35.565	239	151	3	118	356
6318	NP_001346644.1	XP_021326994.1	45.266	338	183	2	270	607
6319	NP_001346644.1	XP_021326994.1	45.000	340	183	4	212	551
6320	NP_001346644.1	XP_021326994.1	45.541	314	170	1	299	612
6321	NP_001346644.1	XP_021326994.1	41.056	341	195	6	156	495
6322	NP_001346644.1	XP_021326994.1	43.269	312	169	3	327	631
6323	NP_001346644.1	XP_021326994.1	40.541	333	194	4	135	467
6324	NP_001346644.1	XP_021326994.1	43.860	285	152	3	354	631
6325	NP_001346644.1	XP_021326994.1	36.644	292	182	3	115	406
6326	NP_001346644.1	XP_021326994.1	35.565	239	151	3	118	356
6327	NP_001346644.1	XP_021326993.1	45.266	338	183	2	270	607
6328	NP_001346644.1	XP_021326993.1	45.000	340	183	4	212	551
6329	NP_001346644.1	XP_021326993.1	45.541	314	170	1	299	612
6330	NP_001346644.1	XP_021326993.1	41.056	341	195	6	156	495
6331	NP_001346644.1	XP_021326993.1	43.269	312	169	3	327	631
6332	NP_001346644.1	XP_021326993.1	40.541	333	194	4	135	467
6333	NP_001346644.1	XP_021326993.1	43.860	285	152	3	354	631
6334	NP_001346644.1	XP_021326993.1	36.644	292	182	3	115	406
6335	NP_001346644.1	XP_021326993.1	35.565	239	151	3	118	356
6336	NP_001346644.1	XP_021330536.1	45.266	338	183	2	270	607
6337	NP_001346644.1	XP_021330536.1	45.000	340	183	4	212	551
6338	NP_001346644.1	XP_021330536.1	45.541	314	170	1	299	612
6339	NP_001346644.1	XP_021330536.1	41.056	341	195	6	156	495
6340	NP_001346644.1	XP_021330536.1	43.269	312	169	3	327	631
6341	NP_001346644.1	XP_021330536.1	40.541	333	194	4	135	467
6342	NP_001346644.1	XP_021330536.1	43.860	285	152	3	354	631
6343	NP_001346644.1	XP_021330536.1	36.644	292	182	3	115	406
6344	NP_001346644.1	XP_021330536.1	35.565	239	151	3	118	356
6345	NP_001346644.1	XP_021330534.1	45.266	338	183	2	270	607
6346	NP_001346644.1	XP_021330534.1	45.000	340	183	4	212	551
6347	NP_001346644.1	XP_021330534.1	45.541	314	170	1	299	612

6348	NP_001346644.1	XP_021330534.1	41.056	341	195	6	156	495
6349	NP_001346644.1	XP_021330534.1	43.269	312	169	3	327	631
6350	NP_001346644.1	XP_021330534.1	40.541	333	194	4	135	467
6351	NP_001346644.1	XP_021330534.1	43.860	285	152	3	354	631
6352	NP_001346644.1	XP_021330534.1	36.644	292	182	3	115	406
6353	NP_001346644.1	XP_021330534.1	35.565	239	151	3	118	356
6354	NP_001346644.1	XP_021330533.1	45.266	338	183	2	270	607
6355	NP_001346644.1	XP_021330533.1	45.000	340	183	4	212	551
6356	NP_001346644.1	XP_021330533.1	45.541	314	170	1	299	612
6357	NP_001346644.1	XP_021330533.1	41.056	341	195	6	156	495
6358	NP_001346644.1	XP_021330533.1	43.269	312	169	3	327	631
6359	NP_001346644.1	XP_021330533.1	40.541	333	194	4	135	467
6360	NP_001346644.1	XP_021330533.1	43.860	285	152	3	354	631
6361	NP_001346644.1	XP_021330533.1	36.644	292	182	3	115	406
6362	NP_001346644.1	XP_021330533.1	35.565	239	151	3	118	356
6363	NP_001346644.1	XP_021330532.1	45.266	338	183	2	270	607
6364	NP_001346644.1	XP_021330532.1	45.000	340	183	4	212	551
6365	NP_001346644.1	XP_021330532.1	45.541	314	170	1	299	612
6366	NP_001346644.1	XP_021330532.1	41.056	341	195	6	156	495
6367	NP_001346644.1	XP_021330532.1	43.269	312	169	3	327	631
6368	NP_001346644.1	XP_021330532.1	40.541	333	194	4	135	467
6369	NP_001346644.1	XP_021330532.1	43.860	285	152	3	354	631
6370	NP_001346644.1	XP_021330532.1	36.644	292	182	3	115	406
6371	NP_001346644.1	XP_021330532.1	35.565	239	151	3	118	356
6372	NP_001346644.1	XP_021330531.1	45.266	338	183	2	270	607
6373	NP_001346644.1	XP_021330531.1	45.000	340	183	4	212	551
6374	NP_001346644.1	XP_021330531.1	45.541	314	170	1	299	612
6375	NP_001346644.1	XP_021330531.1	41.056	341	195	6	156	495
6376	NP_001346644.1	XP_021330531.1	43.269	312	169	3	327	631
6377	NP_001346644.1	XP_021330531.1	40.541	333	194	4	135	467
6378	NP_001346644.1	XP_021330531.1	43.860	285	152	3	354	631
6379	NP_001346644.1	XP_021330531.1	36.644	292	182	3	115	406
6380	NP_001346644.1	XP_021330531.1	35.565	239	151	3	118	356
6381	NP_001346644.1	XP_021330530.1	45.266	338	183	2	270	607
6382	NP_001346644.1	XP_021330530.1	45.000	340	183	4	212	551
6383	NP_001346644.1	XP_021330530.1	45.541	314	170	1	299	612
6384	NP_001346644.1	XP_021330530.1	41.056	341	195	6	156	495
6385	NP_001346644.1	XP_021330530.1	43.269	312	169	3	327	631
6386	NP_001346644.1	XP_021330530.1	40.541	333	194	4	135	467
6387	NP_001346644.1	XP_021330530.1	43.860	285	152	3	354	631
6388	NP_001346644.1	XP_021330530.1	36.644	292	182	3	115	406
6389	NP_001346644.1	XP_021330530.1	35.565	239	151	3	118	356
6390	NP_001346644.1	XP_021329616.1	45.672	335	180	2	273	607

6391	NP_001346644.1	XP_021329616.1	45.697	337	179	4	215	551
6392	NP_001346644.1	XP_021329616.1	45.981	311	167	1	302	612
6393	NP_001346644.1	XP_021329616.1	43.844	333	183	4	191	523
6394	NP_001346644.1	XP_021329616.1	44.013	309	165	3	330	631
6395	NP_001346644.1	XP_021329616.1	40.240	333	195	4	135	467
6396	NP_001346644.1	XP_021329616.1	44.211	285	151	3	354	631
6397	NP_001346644.1	XP_021329616.1	36.644	292	182	3	115	406
6398	NP_001346644.1	XP_021329616.1	34.728	239	153	3	118	356
6399	NP_001346644.1	XP_021329621.1	45.672	335	180	2	273	607
6400	NP_001346644.1	XP_021329621.1	45.697	337	179	4	215	551
6401	NP_001346644.1	XP_021329621.1	45.981	311	167	1	302	612
6402	NP_001346644.1	XP_021329621.1	43.844	333	183	4	191	523
6403	NP_001346644.1	XP_021329621.1	44.013	309	165	3	330	631
6404	NP_001346644.1	XP_021329621.1	40.240	333	195	4	135	467
6405	NP_001346644.1	XP_021329621.1	44.211	285	151	3	354	631
6406	NP_001346644.1	XP_021329621.1	36.644	292	182	3	115	406
6407	NP_001346644.1	XP_021329621.1	34.728	239	153	3	118	356
6408	NP_001346644.1	XP_021329620.1	45.672	335	180	2	273	607
6409	NP_001346644.1	XP_021329620.1	45.697	337	179	4	215	551
6410	NP_001346644.1	XP_021329620.1	45.981	311	167	1	302	612
6411	NP_001346644.1	XP_021329620.1	43.844	333	183	4	191	523
6412	NP_001346644.1	XP_021329620.1	44.013	309	165	3	330	631
6413	NP_001346644.1	XP_021329620.1	40.240	333	195	4	135	467
6414	NP_001346644.1	XP_021329620.1	44.211	285	151	3	354	631
6415	NP_001346644.1	XP_021329620.1	36.644	292	182	3	115	406
6416	NP_001346644.1	XP_021329620.1	34.728	239	153	3	118	356
6417	NP_001346644.1	XP_021329619.1	45.672	335	180	2	273	607
6418	NP_001346644.1	XP_021329619.1	45.697	337	179	4	215	551
6419	NP_001346644.1	XP_021329619.1	45.981	311	167	1	302	612
6420	NP_001346644.1	XP_021329619.1	43.844	333	183	4	191	523
6421	NP_001346644.1	XP_021329619.1	44.013	309	165	3	330	631
6422	NP_001346644.1	XP_021329619.1	40.240	333	195	4	135	467
6423	NP_001346644.1	XP_021329619.1	44.211	285	151	3	354	631
6424	NP_001346644.1	XP_021329619.1	36.644	292	182	3	115	406
6425	NP_001346644.1	XP_021329619.1	34.728	239	153	3	118	356
6426	NP_001346644.1	XP_021329618.1	45.672	335	180	2	273	607
6427	NP_001346644.1	XP_021329618.1	45.697	337	179	4	215	551
6428	NP_001346644.1	XP_021329618.1	45.981	311	167	1	302	612
6429	NP_001346644.1	XP_021329618.1	43.844	333	183	4	191	523
6430	NP_001346644.1	XP_021329618.1	44.013	309	165	3	330	631
6431	NP_001346644.1	XP_021329618.1	40.240	333	195	4	135	467
6432	NP_001346644.1	XP_021329618.1	44.211	285	151	3	354	631
6433	NP_001346644.1	XP_021329618.1	36.644	292	182	3	115	406

6434	NP_001346644.1	XP_021329618.1	34.728	239	153	3	118	356
6435	NP_001346644.1	XP_021329617.1	45.672	335	180	2	273	607
6436	NP_001346644.1	XP_021329617.1	45.697	337	179	4	215	551
6437	NP_001346644.1	XP_021329617.1	45.981	311	167	1	302	612
6438	NP_001346644.1	XP_021329617.1	43.844	333	183	4	191	523
6439	NP_001346644.1	XP_021329617.1	44.013	309	165	3	330	631
6440	NP_001346644.1	XP_021329617.1	40.240	333	195	4	135	467
6441	NP_001346644.1	XP_021329617.1	44.211	285	151	3	354	631
6442	NP_001346644.1	XP_021329617.1	36.644	292	182	3	115	406
6443	NP_001346644.1	XP_021329617.1	34.728	239	153	3	118	356
6444	NP_001346644.1	XP_009299138.2	47.923	313	162	1	300	612
6445	NP_001346644.1	XP_009299138.2	43.732	343	191	2	271	613
6446	NP_001346644.1	XP_009299138.2	44.590	305	168	1	308	612
6447	NP_001346644.1	XP_009299138.2	42.771	332	186	4	158	489
6448	NP_001346644.1	XP_009299138.2	41.477	352	202	4	169	520
6449	NP_001346644.1	XP_009299138.2	39.755	327	193	4	135	461
6450	NP_001346644.1	XP_009299138.2	37.931	319	194	4	124	442
6451	NP_001346644.1	XP_009299138.2	39.716	282	167	3	123	404
6452	NP_001346644.1	XP_009299138.2	36.364	264	165	3	116	379
6453	NP_001346644.1	XP_009299138.2	30.769	195	130	3	88	282
6454	NP_001346644.1	XP_021331025.1	45.533	347	183	4	249	592
6455	NP_001346644.1	XP_021331025.1	44.253	348	187	5	220	564
6456	NP_001346644.1	XP_021331025.1	44.940	336	174	3	307	632
6457	NP_001346644.1	XP_021331025.1	43.391	348	190	5	192	536
6458	NP_001346644.1	XP_021331025.1	41.329	346	196	5	166	508
6459	NP_001346644.1	XP_021331025.1	38.123	341	204	5	115	452
6460	NP_001346644.1	XP_021331025.1	34.295	312	171	4	116	396
6461	NP_001346644.1	XP_021331025.1	28.947	114	78	1	116	226
6462	NP_001346644.1	XP_017210838.1	42.192	365	208	3	244	608
6463	NP_001346644.1	XP_017210838.1	42.478	339	193	2	273	611
6464	NP_001346644.1	XP_017210838.1	40.314	382	223	5	143	524
6465	NP_001346644.1	XP_017210838.1	42.722	316	177	2	302	617
6466	NP_001346644.1	XP_017210838.1	38.567	363	219	4	134	496
6467	NP_001346644.1	XP_017210838.1	45.850	253	129	2	386	631
6468	NP_001346644.1	XP_017210838.1	37.421	318	195	4	123	440
6469	NP_001346644.1	XP_017210838.1	35.880	301	190	3	114	414
6470	NP_001346644.1	XP_009299002.1	42.192	365	208	3	244	608
6471	NP_001346644.1	XP_009299002.1	41.099	382	220	5	143	524
6472	NP_001346644.1	XP_009299002.1	43.658	339	189	2	273	611
6473	NP_001346644.1	XP_009299002.1	42.722	316	177	2	302	617
6474	NP_001346644.1	XP_009299002.1	33.402	482	280	7	17	496
6475	NP_001346644.1	XP_009299002.1	44.664	253	132	2	386	631
6476	NP_001346644.1	XP_017211020.1	47.468	316	164	2	270	585

6477	NP_001346644.1	XP_017211020.1	45.223	314	171	1	299	612
6478	NP_001346644.1	XP_017211020.1	45.614	285	147	3	354	631
6479	NP_001346644.1	XP_017211020.1	42.453	318	179	4	156	473
6480	NP_001346644.1	XP_017211020.1	39.274	303	180	4	115	417
6481	NP_001346644.1	XP_017211020.1	36.032	247	155	3	114	360
6482	NP_001346644.1	XP_017211020.1	34.896	192	122	3	114	305
6483	NP_001346644.1	XP_009294134.1	44.904	363	197	3	244	606
6484	NP_001346644.1	XP_009294134.1	43.132	364	203	4	215	578
6485	NP_001346644.1	XP_009294134.1	42.582	364	205	4	187	550
6486	NP_001346644.1	XP_009294134.1	43.953	339	188	2	273	611
6487	NP_001346644.1	XP_009294134.1	45.230	283	154	1	330	612
6488	NP_001346644.1	XP_009294134.1	38.997	359	215	4	136	494
6489	NP_001346644.1	XP_009294134.1	37.960	353	215	4	114	466
6490	NP_001346644.1	XP_009294134.1	37.838	296	180	4	116	411
6491	NP_001346644.1	XP_009294134.1	37.288	177	101	2	462	631
6492	NP_001346644.1	XP_009294134.1	24.490	98	74	0	113	210
6493	NP_001346644.1	XP_017208612.1	43.989	366	202	3	246	611
6494	NP_001346644.1	XP_017208612.1	43.407	364	197	3	275	631
6495	NP_001346644.1	XP_017208612.1	40.608	362	211	4	166	527
6496	NP_001346644.1	XP_017208612.1	38.655	357	215	4	115	471
6497	NP_001346644.1	XP_017208612.1	42.703	185	106	0	430	614
6498	NP_001346644.1	XP_017208612.1	33.778	225	146	3	106	330
6499	NP_001346644.1	XP_017208611.1	43.989	366	202	3	246	611
6500	NP_001346644.1	XP_017208611.1	43.407	364	197	3	275	631
6501	NP_001346644.1	XP_017208611.1	40.608	362	211	4	166	527
6502	NP_001346644.1	XP_017208611.1	38.655	357	215	4	115	471
6503	NP_001346644.1	XP_017208611.1	42.703	185	106	0	430	614
6504	NP_001346644.1	XP_017208611.1	33.778	225	146	3	106	330
6505	NP_001346644.1	NP_001017546.1	37.859	523	288	10	117	626
6506	NP_001346644.1	NP_001017546.1	33.333	333	200	5	88	404
6507	NP_001346644.1	XP_021329626.1	45.912	318	170	2	270	587
6508	NP_001346644.1	XP_021329626.1	44.904	314	172	1	299	612
6509	NP_001346644.1	XP_021329626.1	45.283	318	170	4	184	501
6510	NP_001346644.1	XP_021329626.1	47.368	285	142	3	354	631
6511	NP_001346644.1	XP_021329626.1	40.000	305	179	4	115	419
6512	NP_001346644.1	XP_021329625.1	45.912	318	170	2	270	587
6513	NP_001346644.1	XP_021329625.1	44.904	314	172	1	299	612
6514	NP_001346644.1	XP_021329625.1	45.283	318	170	4	184	501
6515	NP_001346644.1	XP_021329625.1	47.368	285	142	3	354	631
6516	NP_001346644.1	XP_021329625.1	40.000	305	179	4	115	419
6517	NP_001346644.1	XP_021329624.1	45.912	318	170	2	270	587
6518	NP_001346644.1	XP_021329624.1	44.904	314	172	1	299	612
6519	NP_001346644.1	XP_021329624.1	45.283	318	170	4	184	501

6520	NP_001346644.1	XP_021329624.1	47.368	285	142	3	354	631
6521	NP_001346644.1	XP_021329624.1	40.000	305	179	4	115	419
6522	NP_001346644.1	XP_021329623.1	45.912	318	170	2	270	587
6523	NP_001346644.1	XP_021329623.1	44.904	314	172	1	299	612
6524	NP_001346644.1	XP_021329623.1	45.283	318	170	4	184	501
6525	NP_001346644.1	XP_021329623.1	47.368	285	142	3	354	631
6526	NP_001346644.1	XP_021329623.1	40.000	305	179	4	115	419
6527	NP_001346644.1	XP_021330537.1	46.203	316	168	2	270	585
6528	NP_001346644.1	XP_021330537.1	44.904	314	172	1	299	612
6529	NP_001346644.1	XP_021330537.1	45.426	317	170	3	241	557
6530	NP_001346644.1	XP_021330537.1	45.283	318	170	4	184	501
6531	NP_001346644.1	XP_021330537.1	47.368	285	142	3	354	631
6532	NP_001346644.1	XP_021330537.1	39.604	303	179	4	115	417
6533	NP_001346644.1	XP_021330537.1	47.549	204	106	1	410	612
6534	NP_001346644.1	XP_021330537.1	33.880	183	118	3	123	305
6535	NP_001346644.1	XP_017210982.1	43.953	339	188	2	273	611
6536	NP_001346644.1	XP_017210982.1	41.370	365	211	3	244	608
6537	NP_001346644.1	XP_017210982.1	41.803	366	209	4	159	524
6538	NP_001346644.1	XP_017210982.1	44.937	316	170	2	302	617
6539	NP_001346644.1	XP_017210982.1	39.394	363	216	4	134	496
6540	NP_001346644.1	XP_017210982.1	38.136	354	215	4	115	468
6541	NP_001346644.1	XP_017210982.1	43.304	224	120	1	415	631
6542	NP_001346644.1	XP_017210982.1	38.776	294	171	6	114	404
6543	NP_001346644.1	XP_017210982.1	33.645	214	139	3	114	327
6544	NP_001346644.1	XP_017211134.1	49.026	308	156	1	302	609
6545	NP_001346644.1	XP_017211134.1	44.839	310	168	3	244	553
6546	NP_001346644.1	XP_017211134.1	48.227	282	145	1	330	611
6547	NP_001346644.1	XP_017211134.1	47.368	285	142	2	354	631
6548	NP_001346644.1	XP_017211134.1	42.160	287	162	4	156	442
6549	NP_001346644.1	XP_017211134.1	37.793	299	182	4	115	413
6550	NP_001346644.1	XP_017211134.1	35.349	215	136	3	114	328
6551	NP_001346644.1	XP_017211134.1	34.043	188	121	3	113	300
6552	NP_001346644.1	XP_017211134.1	28.169	71	51	0	116	186
6553	NP_001346644.1	XP_021330457.1	41.129	372	216	3	238	609
6554	NP_001346644.1	XP_021330457.1	42.197	346	198	2	267	612
6555	NP_001346644.1	XP_021330457.1	37.968	374	228	4	124	497
6556	NP_001346644.1	XP_021330457.1	37.853	354	216	4	116	469
6557	NP_001346644.1	XP_021330457.1	36.254	331	207	4	114	444
6558	NP_001346644.1	XP_021330457.1	45.161	93	51	0	520	612
6559	NP_001346644.1	XP_021330456.1	41.129	372	216	3	238	609
6560	NP_001346644.1	XP_021330456.1	42.197	346	198	2	267	612
6561	NP_001346644.1	XP_021330456.1	37.968	374	228	4	124	497
6562	NP_001346644.1	XP_021330456.1	37.853	354	216	4	116	469

6563	NP_001346644.1	XP_021330456.1	36.254	331	207	4	114	444
6564	NP_001346644.1	XP_021330456.1	45.161	93	51	0	520	612
6565	NP_001346644.1	NP_001108377.1	40.617	389	227	4	187	575
6566	NP_001346644.1	NP_001108377.1	40.306	392	230	4	212	603
6567	NP_001346644.1	NP_001108377.1	40.489	368	216	3	244	611
6568	NP_001346644.1	NP_001108377.1	39.005	382	229	4	166	547
6569	NP_001346644.1	NP_001108377.1	41.343	283	165	1	330	612
6570	NP_001346644.1	NP_001108377.1	42.391	276	149	3	358	627
6571	NP_001346644.1	NP_001108377.1	34.574	376	237	6	89	463
6572	NP_001346644.1	XP_017208231.1	35.343	481	280	6	155	608
6573	NP_001346644.1	XP_017208231.1	39.048	420	250	5	166	585
6574	NP_001346644.1	XP_017208231.1	39.096	376	227	2	236	611
6575	NP_001346644.1	XP_017208231.1	35.748	428	246	4	210	611
6576	NP_001346644.1	XP_017208231.1	34.332	434	279	5	124	557
6577	NP_001346644.1	XP_017208231.1	35.731	417	262	5	113	529
6578	NP_001346644.1	XP_017208231.1	34.385	317	199	4	323	631
6579	NP_001346644.1	XP_017208231.1	33.451	284	184	4	106	389
6580	NP_001346644.1	XP_017208231.1	33.594	128	84	1	485	611
6581	NP_001346644.1	XP_021331264.1	48.658	298	152	1	314	611
6582	NP_001346644.1	XP_021331264.1	47.667	300	155	2	285	584
6583	NP_001346644.1	XP_021331264.1	47.970	271	140	1	342	612
6584	NP_001346644.1	XP_021331264.1	43.522	301	166	4	199	499
6585	NP_001346644.1	XP_021331264.1	36.333	300	162	3	115	387
6586	NP_001346644.1	XP_021331264.1	34.959	246	157	3	114	359
6587	NP_001346644.1	XP_017206612.1	36.222	450	272	5	171	609
6588	NP_001346644.1	XP_017206612.1	38.863	422	243	6	202	612
6589	NP_001346644.1	XP_017206612.1	35.880	432	264	4	156	577
6590	NP_001346644.1	XP_017206612.1	36.667	420	251	5	113	521
6591	NP_001346644.1	XP_017206612.1	37.013	308	182	2	316	612
6592	NP_001346644.1	XP_017206612.1	41.224	245	138	2	379	623
6593	NP_001346644.1	XP_017206612.1	27.941	204	135	3	89	292
6594	NP_001346644.1	XP_002664560.3	36.222	450	272	5	171	609
6595	NP_001346644.1	XP_002664560.3	38.863	422	243	6	202	612
6596	NP_001346644.1	XP_002664560.3	35.880	432	264	4	156	577
6597	NP_001346644.1	XP_002664560.3	36.667	420	251	5	113	521
6598	NP_001346644.1	XP_002664560.3	37.013	308	182	2	316	612
6599	NP_001346644.1	XP_002664560.3	41.224	245	138	2	379	623
6600	NP_001346644.1	XP_002664560.3	27.941	204	135	3	89	292
6601	NP_001346644.1	NP_001013514.1	43.989	366	202	3	246	611
6602	NP_001346644.1	NP_001013514.1	43.407	364	197	3	275	631
6603	NP_001346644.1	NP_001013514.1	43.324	367	204	4	217	583
6604	NP_001346644.1	NP_001013514.1	40.548	365	213	4	163	527
6605	NP_001346644.1	NP_001013514.1	44.369	293	156	2	325	611

6606	NP_001346644.1	NP_001013514.1	38.655	357	215	4	115	471
6607	NP_001346644.1	NP_001013514.1	43.243	185	105	0	430	614
6608	NP_001346644.1	NP_001013514.1	33.333	225	147	3	106	330
6609	NP_001346644.1	XP_005161607.1	43.333	360	201	3	246	605
6610	NP_001346644.1	XP_005161607.1	43.917	337	187	2	275	611
6611	NP_001346644.1	XP_005161607.1	39.554	359	213	4	191	549
6612	NP_001346644.1	XP_005161607.1	42.997	307	167	3	332	631
6613	NP_001346644.1	XP_005161607.1	37.921	356	217	4	166	521
6614	NP_001346644.1	XP_005161607.1	35.613	351	222	4	115	465
6615	NP_001346644.1	XP_005161607.1	34.899	298	183	6	113	406
6616	NP_001346644.1	XP_005161607.1	43.243	185	105	0	427	611
6617	NP_001346644.1	XP_009294102.1	43.333	360	201	3	246	605
6618	NP_001346644.1	XP_009294102.1	43.917	337	187	2	275	611
6619	NP_001346644.1	XP_009294102.1	39.554	359	213	4	191	549
6620	NP_001346644.1	XP_009294102.1	42.997	307	167	3	332	631
6621	NP_001346644.1	XP_009294102.1	37.921	356	217	4	166	521
6622	NP_001346644.1	XP_009294102.1	35.613	351	222	4	115	465
6623	NP_001346644.1	XP_009294102.1	34.899	298	183	6	113	406
6624	NP_001346644.1	XP_009294102.1	43.243	185	105	0	427	611
6625	NP_001346644.1	XP_009294101.1	43.333	360	201	3	246	605
6626	NP_001346644.1	XP_009294101.1	43.917	337	187	2	275	611
6627	NP_001346644.1	XP_009294101.1	39.554	359	213	4	191	549
6628	NP_001346644.1	XP_009294101.1	42.997	307	167	3	332	631
6629	NP_001346644.1	XP_009294101.1	37.921	356	217	4	166	521
6630	NP_001346644.1	XP_009294101.1	35.613	351	222	4	115	465
6631	NP_001346644.1	XP_009294101.1	34.899	298	183	6	113	406
6632	NP_001346644.1	XP_009294101.1	43.243	185	105	0	427	611
6633	NP_001346644.1	XP_017211184.1	48.454	291	149	1	322	612
6634	NP_001346644.1	XP_017211184.1	47.241	290	152	1	296	585
6635	NP_001346644.1	XP_017211184.1	45.085	295	158	4	207	501
6636	NP_001346644.1	XP_017211184.1	44.286	280	152	4	166	445
6637	NP_001346644.1	XP_017211184.1	38.776	294	176	4	124	417
6638	NP_001346644.1	XP_017211184.1	37.729	273	167	3	116	388
6639	NP_001346644.1	XP_017211184.1	35.519	183	115	3	123	305
6640	NP_001346644.1	XP_009294080.2	40.095	419	247	4	191	609
6641	NP_001346644.1	XP_009294080.2	34.799	546	300	8	114	612
6642	NP_001346644.1	XP_009294080.2	34.915	527	286	10	156	631
6643	NP_001346644.1	XP_009294080.2	33.627	568	299	9	116	611
6644	NP_001346644.1	XP_009294080.2	36.520	408	255	4	118	525
6645	NP_001346644.1	XP_009294080.2	34.928	418	223	7	238	611
6646	NP_001346644.1	XP_009294080.2	36.086	327	205	4	115	441
6647	NP_001346644.1	XP_009294080.2	42.308	234	134	1	379	612
6648	NP_001346644.1	XP_009294080.2	34.810	158	101	2	114	271

6649	NP_001346644.1	XP_009294080.2	36.364	77	49	0	549	625
6650	NP_001346644.1	XP_009294080.2	24.242	99	75	0	116	214
6651	NP_001346644.1	NP_001107943.1	43.646	362	201	3	244	605
6652	NP_001346644.1	NP_001107943.1	44.479	317	175	1	295	611
6653	NP_001346644.1	NP_001107943.1	43.098	297	161	2	342	631
6654	NP_001346644.1	NP_001107943.1	35.593	354	224	4	112	465
6655	NP_001346644.1	NP_001107943.1	37.255	102	57	2	537	631
6656	NP_001346644.1	XP_017209848.1	40.934	364	212	3	246	609
6657	NP_001346644.1	XP_017209848.1	42.357	314	177	2	304	617
6658	NP_001346644.1	XP_017209848.1	43.421	304	166	2	314	612
6659	NP_001346644.1	XP_017209848.1	33.478	460	279	9	17	469
6660	NP_001346644.1	XP_017209848.1	36.667	300	187	3	115	414
6661	NP_001346644.1	XP_017211057.1	41.644	365	210	3	244	608
6662	NP_001346644.1	XP_017211057.1	40.838	382	221	5	143	524
6663	NP_001346644.1	XP_017211057.1	41.509	371	215	2	241	611
6664	NP_001346644.1	XP_017211057.1	42.405	316	178	2	302	617
6665	NP_001346644.1	XP_017211057.1	38.843	363	218	4	134	496
6666	NP_001346644.1	XP_017211057.1	35.876	354	223	4	115	468
6667	NP_001346644.1	XP_017211057.1	41.724	290	153	3	349	631
6668	NP_001346644.1	XP_017211057.1	37.113	291	180	3	114	404
6669	NP_001346644.1	XP_017211129.1	43.059	353	191	3	264	608
6670	NP_001346644.1	XP_017211129.1	44.540	348	175	4	294	627
6671	NP_001346644.1	XP_017211129.1	41.775	383	218	5	143	525
6672	NP_001346644.1	XP_017211129.1	40.470	383	217	4	235	609
6673	NP_001346644.1	XP_017211129.1	32.391	460	288	7	17	469
6674	NP_001346644.1	XP_017211129.1	45.455	253	130	2	386	631
6675	NP_001346644.1	XP_021324487.1	43.370	362	202	3	244	605
6676	NP_001346644.1	XP_021324487.1	44.164	317	176	1	295	611
6677	NP_001346644.1	XP_021324487.1	45.290	276	150	1	342	617
6678	NP_001346644.1	XP_021324487.1	35.311	354	225	4	112	465
6679	NP_001346644.1	XP_021324487.1	37.255	102	57	2	537	631
6680	NP_001346644.1	XP_021324489.1	44.706	340	186	2	266	605
6681	NP_001346644.1	XP_021324489.1	42.522	341	193	3	237	577
6682	NP_001346644.1	XP_021324489.1	44.164	317	176	1	295	611
6683	NP_001346644.1	XP_021324489.1	43.403	288	155	2	351	631
6684	NP_001346644.1	XP_021324489.1	35.777	341	215	4	125	465
6685	NP_001346644.1	XP_021324489.1	36.957	322	199	4	116	437
6686	NP_001346644.1	XP_021324489.1	34.875	281	173	4	100	380
6687	NP_001346644.1	NP_001103300.1	35.135	481	281	6	155	608
6688	NP_001346644.1	NP_001103300.1	38.810	420	251	5	166	585
6689	NP_001346644.1	NP_001103300.1	35.514	428	247	4	210	611
6690	NP_001346644.1	NP_001103300.1	34.101	434	280	5	124	557
6691	NP_001346644.1	NP_001103300.1	35.492	417	263	5	113	529

6692	NP_001346644.1	NP_001103300.1	35.809	377	213	2	263	611
6693	NP_001346644.1	NP_001103300.1	34.069	317	200	4	323	631
6694	NP_001346644.1	NP_001103300.1	33.451	284	184	4	106	389
6695	NP_001346644.1	XP_017210893.2	39.952	418	225	5	212	607
6696	NP_001346644.1	XP_017210893.2	40.306	392	211	3	241	611
6697	NP_001346644.1	XP_017210893.2	35.223	494	287	8	143	612
6698	NP_001346644.1	XP_017210893.2	32.298	483	295	7	88	548
6699	NP_001346644.1	XP_017210893.2	36.820	239	129	1	396	612
6700	NP_001346644.1	XP_017211055.1	44.643	336	184	2	273	608
6701	NP_001346644.1	XP_017211055.1	40.710	366	214	3	244	609
6702	NP_001346644.1	XP_017211055.1	41.099	382	220	5	144	525
6703	NP_001346644.1	XP_017211055.1	44.304	316	172	2	302	617
6704	NP_001346644.1	XP_017211055.1	38.187	364	221	4	134	497
6705	NP_001346644.1	XP_017211055.1	48.221	253	123	2	386	631
6706	NP_001346644.1	XP_017211055.1	36.111	324	203	4	118	441
6707	NP_001346644.1	XP_017211055.1	38.816	304	177	6	114	414
6708	NP_001346644.1	XP_009297245.1	44.044	361	199	3	246	606
6709	NP_001346644.1	XP_009297245.1	43.875	351	195	2	275	625
6710	NP_001346644.1	XP_009297245.1	43.582	335	181	2	304	631
6711	NP_001346644.1	XP_009297245.1	42.778	360	202	4	191	550
6712	NP_001346644.1	XP_009297245.1	38.028	355	210	6	115	466
6713	NP_001346644.1	NP_001071241.1	41.266	395	222	4	244	631
6714	NP_001346644.1	NP_001071241.1	40.750	400	231	6	156	554
6715	NP_001346644.1	NP_001071241.1	40.155	386	227	4	113	498
6716	NP_001346644.1	NP_001071241.1	42.471	259	148	1	354	612
6717	NP_001346644.1	XP_021331131.1	43.620	337	188	2	273	609
6718	NP_001346644.1	XP_021331131.1	38.363	391	225	7	118	497
6719	NP_001346644.1	XP_021331131.1	44.444	288	156	2	330	617
6720	NP_001346644.1	XP_021331131.1	47.431	253	125	2	386	631
6721	NP_001346644.1	XP_021331131.1	35.793	271	171	3	114	384
6722	NP_001346644.1	XP_017210004.2	38.494	478	274	7	143	603
6723	NP_001346644.1	XP_017210004.2	39.430	421	243	5	199	611
6724	NP_001346644.1	XP_017210004.2	38.381	383	219	5	264	631
6725	NP_001346644.1	XP_017210004.2	34.467	441	277	5	115	547
6726	NP_001346644.1	XP_017210004.2	43.694	222	124	1	390	611
6727	NP_001346644.1	XP_017210004.2	32.312	359	203	5	113	435
6728	NP_001346644.1	XP_017210004.2	36.054	294	177	5	122	407
6729	NP_001346644.1	XP_017210004.2	43.750	160	90	0	455	614
6730	NP_001346644.1	XP_017210004.2	35.833	120	77	0	117	236
6731	NP_001346644.1	NP_001025265.3	44.643	336	184	2	275	610
6732	NP_001346644.1	NP_001025265.3	43.027	337	189	3	246	582
6733	NP_001346644.1	NP_001025265.3	42.857	336	188	4	191	526
6734	NP_001346644.1	NP_001025265.3	42.687	335	184	2	304	631

6735	NP_001346644.1	NP_001025265.3	45.230	283	154	1	330	612
6736	NP_001346644.1	NP_001025265.3	40.240	333	195	4	166	498
6737	NP_001346644.1	NP_001025265.3	38.838	327	196	4	115	441
6738	NP_001346644.1	NP_001025265.3	37.874	301	183	4	114	414
6739	NP_001346644.1	NP_001108212.1	35.827	508	300	9	122	614
6740	NP_001346644.1	NP_001108212.1	34.004	497	322	6	113	607
6741	NP_001346644.1	NP_001116087.1	44.543	339	183	5	215	553
6742	NP_001346644.1	NP_001116087.1	42.899	338	165	2	302	612
6743	NP_001346644.1	NP_001116087.1	41.593	339	193	5	187	525
6744	NP_001346644.1	NP_001116087.1	40.120	334	195	5	166	499
6745	NP_001346644.1	NP_001116087.1	38.602	329	197	4	113	441
6746	NP_001346644.1	XP_021331430.1	45.455	319	171	2	294	610
6747	NP_001346644.1	XP_021331430.1	45.486	288	156	1	324	611
6748	NP_001346644.1	XP_021331430.1	40.994	322	184	5	179	498
6749	NP_001346644.1	XP_021331430.1	46.383	235	125	1	378	612
6750	NP_001346644.1	XP_021331430.1	37.695	321	194	5	123	441
6751	NP_001346644.1	XP_021331430.1	35.974	303	188	5	114	414
6752	NP_001346644.1	XP_021331430.1	43.333	150	78	2	491	633
6753	NP_001346644.1	XP_021331234.1	45.104	337	183	2	273	609
6754	NP_001346644.1	XP_021331234.1	42.149	363	205	5	191	553
6755	NP_001346644.1	XP_021331234.1	45.253	316	169	2	302	617
6756	NP_001346644.1	XP_021331234.1	37.000	400	247	5	126	525
6757	NP_001346644.1	XP_021331234.1	46.718	259	137	1	354	612
6758	NP_001346644.1	XP_021331234.1	37.465	355	217	5	115	469
6759	NP_001346644.1	XP_021331234.1	37.124	299	184	4	116	414
6760	NP_001346644.1	XP_021331234.1	25.954	131	96	1	113	243
6761	NP_001346644.1	NP_001012503.1	39.858	424	250	5	183	606
6762	NP_001346644.1	NP_001012503.1	39.524	420	246	6	210	626
6763	NP_001346644.1	NP_001012503.1	37.123	431	266	4	148	578
6764	NP_001346644.1	NP_001012503.1	41.316	380	219	4	236	615
6765	NP_001346644.1	NP_001012503.1	37.108	415	256	4	136	550
6766	NP_001346644.1	NP_001012503.1	41.693	319	184	2	293	611
6767	NP_001346644.1	NP_001012503.1	36.029	408	256	4	115	522
6768	NP_001346644.1	NP_001012503.1	35.216	301	187	4	124	419
6769	NP_001346644.1	NP_001012503.1	34.944	269	172	3	113	381
6770	NP_001346644.1	NP_001012503.1	24.427	131	99	0	118	248
6771	NP_001346644.1	XP_005174011.1	39.858	424	250	5	183	606
6772	NP_001346644.1	XP_005174011.1	39.524	420	246	6	210	626
6773	NP_001346644.1	XP_005174011.1	37.123	431	266	4	148	578
6774	NP_001346644.1	XP_005174011.1	41.316	380	219	4	236	615
6775	NP_001346644.1	XP_005174011.1	37.108	415	256	4	136	550
6776	NP_001346644.1	XP_005174011.1	41.693	319	184	2	293	611
6777	NP_001346644.1	XP_005174011.1	36.029	408	256	4	115	522

6778	NP_001346644.1	XP_005174011.1	35.216	301	187	4	124	419
6779	NP_001346644.1	XP_005174011.1	34.944	269	172	3	113	381
6780	NP_001346644.1	XP_005174011.1	24.427	131	99	0	118	248
6781	NP_001346644.1	XP_021331497.1	43.235	340	190	3	273	612
6782	NP_001346644.1	XP_021331497.1	43.155	336	184	3	302	631
6783	NP_001346644.1	XP_021331497.1	42.442	344	194	4	244	587
6784	NP_001346644.1	XP_021331497.1	41.667	348	198	5	215	562
6785	NP_001346644.1	XP_021331497.1	38.522	379	219	7	150	527
6786	NP_001346644.1	XP_021331497.1	38.596	342	205	5	134	475
6787	NP_001346644.1	XP_021331497.1	35.531	273	172	4	114	386
6788	NP_001346644.1	XP_021331497.1	43.103	174	99	0	438	611
6789	NP_001346644.1	XP_021331497.1	34.400	250	160	4	113	362
6790	NP_001346644.1	XP_021331497.1	24.138	116	87	1	113	228
6791	NP_001346644.1	XP_005170431.1	38.889	432	248	4	191	609
6792	NP_001346644.1	XP_005170431.1	40.342	409	226	6	217	611
6793	NP_001346644.1	XP_005170431.1	39.535	430	242	6	166	581
6794	NP_001346644.1	XP_005170431.1	37.696	382	215	4	271	631
6795	NP_001346644.1	XP_005170431.1	35.765	425	255	6	115	525
6796	NP_001346644.1	XP_005170431.1	34.954	329	143	4	381	639
6797	NP_001346644.1	XP_005170431.1	35.484	279	177	3	106	384
6798	NP_001346644.1	XP_021327273.1	40.759	395	224	4	244	631
6799	NP_001346644.1	XP_021327273.1	40.750	400	231	6	156	554
6800	NP_001346644.1	XP_021327273.1	39.637	386	229	4	113	498
6801	NP_001346644.1	XP_021327273.1	40.702	285	161	3	354	631
6802	NP_001346644.1	XP_017210895.1	41.096	365	210	4	246	609
6803	NP_001346644.1	XP_017210895.1	41.848	368	210	4	186	553
6804	NP_001346644.1	XP_017210895.1	42.994	314	175	2	304	617
6805	NP_001346644.1	XP_017210895.1	34.221	488	266	10	17	497
6806	NP_001346644.1	XP_017210895.1	42.105	304	170	2	314	612
6807	NP_001346644.1	XP_017210895.1	35.452	299	190	3	116	414
6808	NP_001346644.1	XP_017210837.1	39.948	388	224	5	227	609
6809	NP_001346644.1	XP_017210837.1	41.848	368	210	4	186	553
6810	NP_001346644.1	XP_017210837.1	42.433	337	186	3	285	617
6811	NP_001346644.1	XP_017210837.1	34.426	488	265	10	17	497
6812	NP_001346644.1	XP_017210837.1	36.120	299	188	3	116	414
6813	NP_001346644.1	XP_021325072.1	42.779	367	207	3	244	610
6814	NP_001346644.1	XP_021325072.1	42.478	339	193	2	273	611
6815	NP_001346644.1	XP_021325072.1	44.373	311	172	1	302	612
6816	NP_001346644.1	XP_021325072.1	39.529	382	225	5	147	526
6817	NP_001346644.1	XP_021325072.1	37.255	357	220	4	114	470
6818	NP_001346644.1	XP_021325072.1	41.176	272	128	3	369	612
6819	NP_001346644.1	XP_021325072.1	39.732	224	128	1	415	631
6820	NP_001346644.1	XP_021325074.1	42.779	367	207	3	244	610

6821	NP_001346644.1	XP_021325074.1	42.478	339	193	2	273	611
6822	NP_001346644.1	XP_021325074.1	44.373	311	172	1	302	612
6823	NP_001346644.1	XP_021325074.1	39.529	382	225	5	147	526
6824	NP_001346644.1	XP_021325074.1	37.255	357	220	4	114	470
6825	NP_001346644.1	XP_021325074.1	41.176	272	128	3	369	612
6826	NP_001346644.1	XP_021325074.1	39.732	224	128	1	415	631
6827	NP_001346644.1	XP_021327012.1	41.772	395	226	4	215	609
6828	NP_001346644.1	XP_021327012.1	42.935	368	207	3	244	611
6829	NP_001346644.1	XP_021327012.1	41.266	395	228	4	187	581
6830	NP_001346644.1	XP_021327012.1	41.519	395	227	4	159	553
6831	NP_001346644.1	XP_021327012.1	42.017	357	201	3	273	629
6832	NP_001346644.1	XP_021327012.1	37.859	383	234	4	115	497
6833	NP_001346644.1	XP_021327012.1	41.107	253	141	3	386	631
6834	NP_001346644.1	XP_021327012.1	36.066	244	149	4	114	355
6835	NP_001346644.1	XP_021330546.1	41.772	395	226	4	215	609
6836	NP_001346644.1	XP_021330546.1	42.935	368	207	3	244	611
6837	NP_001346644.1	XP_021330546.1	41.266	395	228	4	187	581
6838	NP_001346644.1	XP_021330546.1	41.519	395	227	4	159	553
6839	NP_001346644.1	XP_021330546.1	42.017	357	201	3	273	629
6840	NP_001346644.1	XP_021330546.1	37.859	383	234	4	115	497
6841	NP_001346644.1	XP_021330546.1	41.107	253	141	3	386	631
6842	NP_001346644.1	XP_021330546.1	36.066	244	149	4	114	355
6843	NP_001346644.1	XP_021331159.1	47.712	306	159	1	304	609
6844	NP_001346644.1	XP_021331159.1	46.429	308	162	3	246	553
6845	NP_001346644.1	XP_021331159.1	46.454	282	150	1	330	611
6846	NP_001346644.1	XP_021331159.1	44.300	307	167	4	191	497
6847	NP_001346644.1	XP_021331159.1	49.225	258	130	1	354	611
6848	NP_001346644.1	XP_021331159.1	41.368	307	176	4	136	442
6849	NP_001346644.1	XP_021331159.1	47.111	225	118	1	388	612
6850	NP_001346644.1	XP_021331159.1	38.742	302	175	6	115	413
6851	NP_001346644.1	XP_021331159.1	27.027	74	54	0	113	186
6852	NP_001346644.1	NP_001103336.1	44.706	340	186	2	273	612
6853	NP_001346644.1	NP_001103336.1	41.935	341	194	4	157	497
6854	NP_001346644.1	NP_001103336.1	46.181	288	153	2	325	611
6855	NP_001346644.1	NP_001103336.1	39.210	329	196	4	115	443
6856	NP_001346644.1	NP_001103336.1	32.804	189	124	3	114	302
6857	NP_001346644.1	XP_021331029.1	46.906	307	162	1	302	608
6858	NP_001346644.1	XP_021331029.1	46.996	283	149	1	330	612
6859	NP_001346644.1	XP_021331029.1	44.337	309	169	3	244	552
6860	NP_001346644.1	XP_021331029.1	41.214	313	180	4	156	468
6861	NP_001346644.1	XP_021331029.1	38.754	289	174	3	118	406
6862	NP_001346644.1	XP_021331029.1	38.258	264	160	3	120	383
6863	NP_001346644.1	XP_021331029.1	32.000	100	62	2	116	212

6864	NP_001346644.1	XP_021325077.1	41.316	380	210	5	242	610
6865	NP_001346644.1	XP_021325077.1	40.483	373	206	5	166	526
6866	NP_001346644.1	XP_021325077.1	39.943	353	198	4	271	611
6867	NP_001346644.1	XP_021325077.1	40.066	302	168	2	325	614
6868	NP_001346644.1	XP_021325077.1	38.776	294	176	4	148	441
6869	NP_001346644.1	XP_021325077.1	36.397	272	170	3	114	385
6870	NP_001346644.1	XP_021331067.1	46.906	307	162	1	302	608
6871	NP_001346644.1	XP_021331067.1	46.996	283	149	1	330	612
6872	NP_001346644.1	XP_021331067.1	44.337	309	169	3	244	552
6873	NP_001346644.1	XP_021331067.1	40.895	313	181	4	156	468
6874	NP_001346644.1	XP_021331067.1	38.408	289	175	3	118	406
6875	NP_001346644.1	XP_021331067.1	37.500	264	162	3	120	383
6876	NP_001346644.1	XP_021331067.1	32.000	100	62	2	116	212
6877	NP_001346644.1	XP_021335810.1	37.204	422	260	5	184	605
6878	NP_001346644.1	XP_021335810.1	35.849	424	267	5	156	579
6879	NP_001346644.1	XP_021335810.1	37.688	398	237	5	241	631
6880	NP_001346644.1	XP_021335810.1	31.926	379	253	5	115	493
6881	NP_001346644.1	XP_017211225.1	47.771	314	155	4	246	553
6882	NP_001346644.1	XP_017211225.1	47.756	312	156	2	304	609
6883	NP_001346644.1	XP_017211225.1	47.604	313	156	3	275	581
6884	NP_001346644.1	XP_017211225.1	46.032	315	160	5	217	525
6885	NP_001346644.1	XP_017211225.1	47.222	288	145	2	330	611
6886	NP_001346644.1	XP_017211225.1	50.379	264	124	2	354	611
6887	NP_001346644.1	XP_017211225.1	45.048	313	162	5	191	497
6888	NP_001346644.1	XP_017211225.1	43.548	310	165	5	166	469
6889	NP_001346644.1	XP_017211225.1	40.000	310	170	7	113	413
6890	NP_001346644.1	XP_017211225.1	27.027	74	54	0	113	186
6891	NP_001346644.1	XP_005174058.1	37.321	418	231	3	187	604
6892	NP_001346644.1	XP_005174058.1	40.327	367	209	4	273	631
6893	NP_001346644.1	XP_005174058.1	38.859	368	223	2	244	611
6894	NP_001346644.1	XP_005174058.1	39.118	363	216	5	158	519
6895	NP_001346644.1	XP_021324959.1	37.321	418	231	3	187	604
6896	NP_001346644.1	XP_021324959.1	40.327	367	209	4	273	631
6897	NP_001346644.1	XP_021324959.1	38.859	368	223	2	244	611
6898	NP_001346644.1	XP_021324959.1	39.118	363	216	5	158	519
6899	NP_001346644.1	XP_021331298.1	41.304	368	207	5	215	581
6900	NP_001346644.1	XP_021331298.1	44.207	328	181	2	285	611
6901	NP_001346644.1	XP_021331298.1	40.761	368	209	6	187	553
6902	NP_001346644.1	XP_021331298.1	43.789	322	168	3	294	607
6903	NP_001346644.1	XP_021331298.1	44.771	306	157	4	330	628
6904	NP_001346644.1	XP_021331298.1	37.650	417	240	8	118	525
6905	NP_001346644.1	XP_021331298.1	37.333	300	183	5	115	413
6906	NP_001346644.1	XP_021331298.1	39.070	215	119	2	406	612

6907	NP_001346644.1	XP_021331298.1	33.333	240	156	4	114	352
6908	NP_001346644.1	XP_021331298.1	28.931	159	84	2	113	271
6909	NP_001346644.1	XP_021331297.1	41.304	368	207	5	215	581
6910	NP_001346644.1	XP_021331297.1	44.207	328	181	2	285	611
6911	NP_001346644.1	XP_021331297.1	40.761	368	209	6	187	553
6912	NP_001346644.1	XP_021331297.1	43.789	322	168	3	294	607
6913	NP_001346644.1	XP_021331297.1	44.771	306	157	4	330	628
6914	NP_001346644.1	XP_021331297.1	37.650	417	240	8	118	525
6915	NP_001346644.1	XP_021331297.1	37.333	300	183	5	115	413
6916	NP_001346644.1	XP_021331297.1	39.070	215	119	2	406	612
6917	NP_001346644.1	XP_021331297.1	33.333	240	156	4	114	352
6918	NP_001346644.1	XP_021331297.1	28.931	159	84	2	113	271
6919	NP_001346644.1	XP_009289663.1	42.229	341	192	2	289	625
6920	NP_001346644.1	XP_009289663.1	43.289	298	168	1	314	611
6921	NP_001346644.1	XP_009289663.1	40.774	336	195	4	162	497
6922	NP_001346644.1	XP_009289663.1	41.606	274	159	1	339	612
6923	NP_001346644.1	XP_009289663.1	39.252	321	191	4	149	469
6924	NP_001346644.1	XP_009289663.1	38.158	304	178	7	113	413
6925	NP_001346644.1	XP_009289663.1	40.361	166	99	0	446	611
6926	NP_001346644.1	XP_699917.3	42.507	367	208	3	244	610
6927	NP_001346644.1	XP_699917.3	42.773	339	192	2	273	611
6928	NP_001346644.1	XP_699917.3	39.500	400	237	5	127	526
6929	NP_001346644.1	XP_699917.3	42.444	311	178	1	302	612
6930	NP_001346644.1	XP_699917.3	45.552	281	145	3	358	631
6931	NP_001346644.1	XP_699917.3	36.236	356	223	4	115	470
6932	NP_001346644.1	XP_699917.3	29.771	131	91	1	113	243
6933	NP_001346644.1	XP_017211166.1	47.687	281	146	1	330	610
6934	NP_001346644.1	XP_017211166.1	45.485	299	146	5	349	631
6935	NP_001346644.1	XP_017211166.1	40.559	286	166	4	156	441
6936	NP_001346644.1	XP_017211166.1	37.638	271	166	3	115	385
6937	NP_001346644.1	XP_017211166.1	35.648	216	136	3	114	329
6938	NP_001346644.1	XP_001337387.5	38.667	375	227	3	229	603
6939	NP_001346644.1	XP_001337387.5	39.335	361	215	4	215	575
6940	NP_001346644.1	XP_001337387.5	40.059	337	200	2	273	609
6941	NP_001346644.1	XP_001337387.5	41.667	324	188	1	288	611
6942	NP_001346644.1	XP_001337387.5	38.095	357	217	4	135	491
6943	NP_001346644.1	XP_001337387.5	33.333	336	210	5	115	450
6944	NP_001346644.1	XP_001337387.5	34.848	264	169	3	113	376
6945	NP_001346644.1	XP_001337387.5	40.351	114	68	0	499	612
6946	NP_001346644.1	XP_017209967.1	43.452	336	188	2	273	608
6947	NP_001346644.1	XP_017209967.1	46.528	288	150	2	330	617
6948	NP_001346644.1	XP_017209967.1	40.395	354	206	5	143	496
6949	NP_001346644.1	XP_017209967.1	45.076	264	136	2	349	612

6950	NP_001346644.1	XP_017209967.1	37.910	335	204	4	134	468
6951	NP_001346644.1	XP_017209967.1	39.085	284	170	3	123	406
6952	NP_001346644.1	XP_017209967.1	39.927	273	155	6	114	383
6953	NP_001346644.1	XP_005174032.1	36.617	467	269	7	166	632
6954	NP_001346644.1	XP_005174032.1	37.162	444	261	7	144	577
6955	NP_001346644.1	XP_005174032.1	39.163	406	231	6	217	611
6956	NP_001346644.1	XP_005174032.1	35.897	390	233	7	115	493
6957	NP_001346644.1	XP_005174032.1	37.812	320	186	3	300	608
6958	NP_001346644.1	XP_005174032.1	38.408	289	176	2	325	613
6959	NP_001346644.1	XP_005174032.1	34.731	334	204	5	114	437
6960	NP_001346644.1	XP_005174032.1	36.694	248	136	3	383	611
6961	NP_001346644.1	XP_005174032.1	34.066	182	117	3	113	294
6962	NP_001346644.1	NP_001083040.2	46.006	313	167	2	300	612
6963	NP_001346644.1	NP_001083040.2	43.631	369	201	6	242	607
6964	NP_001346644.1	NP_001083040.2	43.089	369	202	7	213	578
6965	NP_001346644.1	NP_001083040.2	42.818	369	203	6	185	550
6966	NP_001346644.1	NP_001083040.2	43.503	354	193	6	166	517
6967	NP_001346644.1	NP_001083040.2	39.227	362	212	7	136	494
6968	NP_001346644.1	NP_001083040.2	37.604	359	208	9	115	466
6969	NP_001346644.1	NP_001083040.2	38.854	314	185	6	113	424
6970	NP_001346644.1	NP_001083040.2	43.411	258	118	3	381	611
6971	NP_001346644.1	NP_001083040.2	41.048	229	127	3	410	631
6972	NP_001346644.1	NP_001083040.2	42.574	202	108	2	438	632
6973	NP_001346644.1	XP_021325073.1	46.006	313	167	2	300	612
6974	NP_001346644.1	XP_021325073.1	43.631	369	201	6	242	607
6975	NP_001346644.1	XP_021325073.1	43.089	369	202	7	213	578
6976	NP_001346644.1	XP_021325073.1	42.818	369	203	6	185	550
6977	NP_001346644.1	XP_021325073.1	43.503	354	193	6	166	517
6978	NP_001346644.1	XP_021325073.1	39.227	362	212	7	136	494
6979	NP_001346644.1	XP_021325073.1	37.604	359	208	9	115	466
6980	NP_001346644.1	XP_021325073.1	38.854	314	185	6	113	424
6981	NP_001346644.1	XP_021325073.1	43.411	258	118	3	381	611
6982	NP_001346644.1	XP_021325073.1	41.048	229	127	3	410	631
6983	NP_001346644.1	XP_021325073.1	42.574	202	108	2	438	632
6984	NP_001346644.1	XP_005165065.1	37.296	429	265	4	184	612
6985	NP_001346644.1	XP_005165065.1	37.220	446	274	6	148	592
6986	NP_001346644.1	XP_005165065.1	36.512	430	267	6	136	564
6987	NP_001346644.1	XP_005165065.1	42.177	294	168	2	319	611
6988	NP_001346644.1	XP_005165065.1	33.412	422	275	6	116	536
6989	NP_001346644.1	XP_005165065.1	32.741	394	261	4	115	508
6990	NP_001346644.1	XP_005165065.1	40.678	177	105	0	436	612
6991	NP_001346644.1	XP_005165065.1	35.465	172	98	2	466	630
6992	NP_001346644.1	XP_021330830.1	48.410	283	141	2	354	636

6993	NP_001346644.1	XP_021330830.1	48.029	279	144	1	330	608
6994	NP_001346644.1	XP_021330830.1	47.670	279	145	1	302	580
6995	NP_001346644.1	XP_021330830.1	45.390	282	150	4	187	468
6996	NP_001346644.1	XP_021330830.1	43.158	285	158	4	156	440
6997	NP_001346644.1	XP_021330830.1	39.777	269	159	3	115	383
6998	NP_001346644.1	XP_017210929.2	46.667	300	159	1	317	616
6999	NP_001346644.1	XP_017210929.2	46.000	300	161	1	294	593
7000	NP_001346644.1	XP_017210929.2	44.805	308	167	3	231	538
7001	NP_001346644.1	XP_017210929.2	37.864	309	188	4	117	425
7002	NP_001346644.1	XP_017210929.2	46.552	232	117	2	407	631
7003	NP_001346644.1	XP_017210929.2	46.739	184	98	0	429	612
7004	NP_001346644.1	XP_009294081.2	43.402	341	191	2	271	611
7005	NP_001346644.1	XP_009294081.2	39.701	335	198	4	166	500
7006	NP_001346644.1	XP_009294081.2	45.059	253	138	1	360	612
7007	NP_001346644.1	XP_009294081.2	37.920	327	199	4	117	443
7008	NP_001346644.1	XP_009294081.2	36.765	272	169	3	115	386
7009	NP_001346644.1	XP_021325070.1	41.278	407	227	6	215	611
7010	NP_001346644.1	XP_021325070.1	38.785	428	246	5	166	581
7011	NP_001346644.1	XP_021325070.1	37.784	352	178	4	300	611
7012	NP_001346644.1	XP_021325070.1	35.142	424	261	7	113	525
7013	NP_001346644.1	XP_021325070.1	36.571	350	176	3	328	631
7014	NP_001346644.1	XP_021325070.1	38.961	308	155	4	166	443
7015	NP_001346644.1	XP_021331002.1	42.982	342	193	2	273	614
7016	NP_001346644.1	XP_021331002.1	38.947	380	225	5	121	497
7017	NP_001346644.1	XP_021331002.1	40.789	304	176	4	168	471
7018	NP_001346644.1	XP_021331002.1	37.690	329	201	4	115	443
7019	NP_001346644.1	NP_001352876.1	45.266	338	183	2	275	612
7020	NP_001346644.1	NP_001352876.1	42.136	337	191	4	191	527
7021	NP_001346644.1	NP_001352876.1	44.912	285	156	1	327	611
7022	NP_001346644.1	NP_001352876.1	35.493	355	224	5	118	471
7023	NP_001346644.1	NP_001352876.1	37.690	329	201	4	115	443
7024	NP_001346644.1	XP_017208590.1	38.679	424	245	6	190	612
7025	NP_001346644.1	XP_017208590.1	37.965	403	220	6	244	623
7026	NP_001346644.1	XP_017208590.1	37.379	412	201	6	166	527
7027	NP_001346644.1	XP_017208590.1	36.207	406	228	7	118	500
7028	NP_001346644.1	XP_017208590.1	35.884	379	212	8	116	471
7029	NP_001346644.1	XP_017210896.2	42.433	337	192	2	273	609
7030	NP_001346644.1	XP_017210896.2	45.139	288	154	2	330	617
7031	NP_001346644.1	XP_017210896.2	43.874	253	134	2	386	631
7032	NP_001346644.1	XP_017210896.2	32.821	390	251	6	59	441
7033	NP_001346644.1	XP_017210896.2	36.667	300	187	3	115	414
7034	NP_001346644.1	XP_021325069.1	38.679	424	245	6	190	612
7035	NP_001346644.1	XP_021325069.1	37.965	403	220	6	244	623

7036	NP_001346644.1	XP_021325069.1	37.379	412	201	6	166	527
7037	NP_001346644.1	XP_021325069.1	36.207	406	228	7	118	500
7038	NP_001346644.1	XP_021325069.1	35.884	379	212	8	116	471
7039	NP_001346644.1	XP_009301951.2	44.099	322	179	1	295	616
7040	NP_001346644.1	XP_009301951.2	44.136	324	179	2	266	589
7041	NP_001346644.1	XP_009301951.2	44.014	284	141	3	360	631
7042	NP_001346644.1	XP_009301951.2	42.020	307	174	4	166	472
7043	NP_001346644.1	XP_009301951.2	40.066	302	177	4	115	416
7044	NP_001346644.1	XP_009301951.2	28.972	107	76	0	115	221
7045	NP_001346644.1	XP_021331133.1	46.392	291	155	1	327	617
7046	NP_001346644.1	XP_021331133.1	46.801	297	157	1	299	595
7047	NP_001346644.1	XP_021331133.1	47.876	259	134	1	354	612
7048	NP_001346644.1	XP_021331133.1	47.436	234	122	1	379	612
7049	NP_001346644.1	XP_021331133.1	40.278	288	168	4	138	425
7050	NP_001346644.1	XP_021331133.1	37.676	284	174	3	115	398
7051	NP_001346644.1	XP_017210830.1	42.857	336	190	2	273	608
7052	NP_001346644.1	XP_017210830.1	43.548	310	174	1	302	611
7053	NP_001346644.1	XP_017210830.1	45.486	288	153	2	330	617
7054	NP_001346644.1	XP_017210830.1	39.831	354	208	5	143	496
7055	NP_001346644.1	XP_017210830.1	37.910	335	204	4	134	468
7056	NP_001346644.1	XP_017210830.1	38.732	284	171	3	123	406
7057	NP_001346644.1	XP_017210830.1	39.560	273	156	6	114	383
7058	NP_001346644.1	XP_021324969.1	38.679	424	245	6	190	612
7059	NP_001346644.1	XP_021324969.1	38.539	397	214	6	244	617
7060	NP_001346644.1	XP_021324969.1	37.379	412	201	6	166	527
7061	NP_001346644.1	XP_021324969.1	36.207	406	228	7	118	500
7062	NP_001346644.1	XP_021324969.1	35.884	379	212	8	116	471
7063	NP_001346644.1	XP_021324968.1	38.679	424	245	6	190	612
7064	NP_001346644.1	XP_021324968.1	38.539	397	214	6	244	617
7065	NP_001346644.1	XP_021324968.1	37.379	412	201	6	166	527
7066	NP_001346644.1	XP_021324968.1	36.207	406	228	7	118	500
7067	NP_001346644.1	XP_021324968.1	35.884	379	212	8	116	471
7068	NP_001346644.1	XP_021331277.1	44.348	345	182	5	215	553
7069	NP_001346644.1	XP_021331277.1	44.089	313	168	2	302	608
7070	NP_001346644.1	XP_021331277.1	41.108	343	194	3	273	609
7071	NP_001346644.1	XP_021331277.1	44.516	310	156	4	330	627
7072	NP_001346644.1	XP_021331277.1	39.267	382	205	6	144	525
7073	NP_001346644.1	XP_021331277.1	30.979	439	272	8	17	441
7074	NP_001346644.1	XP_021331277.1	38.816	304	177	6	114	414
7075	NP_001346644.1	XP_017210993.2	48.043	281	145	1	330	610
7076	NP_001346644.1	XP_017210993.2	45.965	285	146	2	354	631
7077	NP_001346644.1	XP_017210993.2	40.909	286	165	4	156	441
7078	NP_001346644.1	XP_017210993.2	37.269	271	167	3	115	385

7079	NP_001346644.1	XP_017210993.2	36.111	216	135	3	114	329
7080	NP_001346644.1	XP_021321964.1	35.161	529	303	5	118	609
7081	NP_001346644.1	XP_021321964.1	34.357	521	298	5	130	611
7082	NP_001346644.1	XP_021321964.1	35.417	528	295	8	124	611
7083	NP_001346644.1	XP_021321964.1	37.821	468	247	7	183	611
7084	NP_001346644.1	XP_021321964.1	34.457	534	319	10	120	631
7085	NP_001346644.1	XP_021321964.1	41.017	295	171	3	332	625
7086	NP_001346644.1	XP_021321964.1	32.294	449	266	5	113	553
7087	NP_001346644.1	XP_021321964.1	36.726	226	143	0	387	612
7088	NP_001346644.1	XP_021321964.1	29.605	152	103	3	91	242
7089	NP_001346644.1	XP_021321964.1	26.804	97	71	0	118	214
7090	NP_001346644.1	XP_021331309.1	46.429	308	164	1	302	609
7091	NP_001346644.1	XP_021331309.1	45.338	311	166	4	215	525
7092	NP_001346644.1	XP_021331309.1	45.788	273	144	2	358	627
7093	NP_001346644.1	XP_021331309.1	40.491	326	189	5	144	469
7094	NP_001346644.1	XP_021331309.1	37.338	308	189	4	134	441
7095	NP_001346644.1	XP_021331309.1	37.294	303	181	5	115	414
7096	NP_001346644.1	XP_021331309.1	37.190	242	149	3	114	355
7097	NP_001346644.1	XP_017211222.1	42.433	337	192	2	273	609
7098	NP_001346644.1	XP_017211222.1	44.792	288	155	2	330	617
7099	NP_001346644.1	XP_017211222.1	40.113	354	207	5	144	497
7100	NP_001346644.1	XP_017211222.1	36.905	336	208	4	134	469
7101	NP_001346644.1	XP_017211222.1	44.269	253	133	2	386	631
7102	NP_001346644.1	XP_017211222.1	31.538	390	231	5	59	414
7103	NP_001346644.1	XP_021327798.1	33.737	578	318	11	113	631
7104	NP_001346644.1	XP_021327798.1	34.821	560	299	11	124	629
7105	NP_001346644.1	XP_021327798.1	34.741	521	283	9	113	581
7106	NP_001346644.1	XP_021327798.1	35.381	472	248	9	191	610
7107	NP_001346644.1	XP_021327798.1	42.462	325	181	3	289	609
7108	NP_001346644.1	XP_021327798.1	35.619	452	234	9	213	612
7109	NP_001346644.1	XP_021327798.1	41.026	312	175	3	328	632
7110	NP_001346644.1	XP_021327798.1	26.214	103	76	0	113	215
7111	NP_001346644.1	NP_001104669.1	43.027	337	188	4	217	553
7112	NP_001346644.1	NP_001104669.1	41.011	356	199	4	264	610
7113	NP_001346644.1	NP_001104669.1	44.079	304	160	3	330	627
7114	NP_001346644.1	NP_001104669.1	40.896	335	194	4	191	525
7115	NP_001346644.1	NP_001104669.1	41.718	326	181	2	294	611
7116	NP_001346644.1	NP_001104669.1	41.212	330	190	4	168	497
7117	NP_001346644.1	NP_001104669.1	36.697	327	203	4	115	441
7118	NP_001346644.1	NP_001104669.1	41.860	215	117	1	406	612
7119	NP_001346644.1	NP_001104669.1	36.531	271	169	3	114	384
7120	NP_001346644.1	NP_001104669.1	25.954	131	97	0	113	243
7121	NP_001346644.1	XP_017210573.1	43.027	337	188	4	217	553

7122	NP_001346644.1	XP_017210573.1	41.011	356	199	4	264	610
7123	NP_001346644.1	XP_017210573.1	44.079	304	160	3	330	627
7124	NP_001346644.1	XP_017210573.1	40.896	335	194	4	191	525
7125	NP_001346644.1	XP_017210573.1	41.718	326	181	2	294	611
7126	NP_001346644.1	XP_017210573.1	41.212	330	190	4	168	497
7127	NP_001346644.1	XP_017210573.1	36.697	327	203	4	115	441
7128	NP_001346644.1	XP_017210573.1	41.860	215	117	1	406	612
7129	NP_001346644.1	XP_017210573.1	36.531	271	169	3	114	384
7130	NP_001346644.1	XP_017210573.1	25.954	131	97	0	113	243
7131	NP_001346644.1	XP_009301501.1	40.934	364	206	5	215	577
7132	NP_001346644.1	XP_009301501.1	43.293	328	184	2	285	611
7133	NP_001346644.1	XP_009301501.1	40.164	366	210	6	187	551
7134	NP_001346644.1	XP_009301501.1	40.437	366	209	6	159	523
7135	NP_001346644.1	XP_009301501.1	44.118	306	159	4	330	628
7136	NP_001346644.1	XP_009301501.1	39.368	348	206	5	149	495
7137	NP_001346644.1	XP_009301501.1	36.508	315	197	3	123	437
7138	NP_001346644.1	XP_009301501.1	36.770	291	180	4	115	404
7139	NP_001346644.1	XP_009301501.1	40.000	215	117	3	406	612
7140	NP_001346644.1	XP_009301501.1	32.083	240	159	4	114	352
7141	NP_001346644.1	NP_001373793.1	41.840	337	194	2	273	609
7142	NP_001346644.1	NP_001373793.1	44.444	288	156	2	330	617
7143	NP_001346644.1	NP_001373793.1	41.613	310	180	1	302	611
7144	NP_001346644.1	NP_001373793.1	43.874	253	134	2	386	631
7145	NP_001346644.1	NP_001373793.1	30.324	432	253	6	17	414
7146	NP_001346644.1	XP_021331370.1	47.687	281	145	2	267	547
7147	NP_001346644.1	XP_021331370.1	46.786	280	148	1	324	603
7148	NP_001346644.1	XP_021331370.1	49.425	261	131	1	352	612
7149	NP_001346644.1	XP_021331370.1	38.043	276	168	3	135	410
7150	NP_001346644.1	XP_021331370.1	37.548	261	160	3	116	376
7151	NP_001346644.1	XP_021331370.1	34.615	234	150	3	117	350
7152	NP_001346644.1	XP_021331370.1	31.452	124	85	0	116	239
7153	NP_001346644.1	XP_021331370.1	23.656	93	71	0	113	205
7154	NP_001346644.1	XP_021331229.1	42.136	337	193	2	273	609
7155	NP_001346644.1	XP_021331229.1	44.444	288	156	2	330	617
7156	NP_001346644.1	XP_021331229.1	41.935	310	179	1	302	611
7157	NP_001346644.1	XP_021331229.1	44.269	253	133	2	386	631
7158	NP_001346644.1	XP_021331229.1	31.980	394	232	5	55	414
7159	NP_001346644.1	NP_001013577.1	44.375	320	176	2	258	577
7160	NP_001346644.1	NP_001013577.1	42.994	314	178	1	292	605
7161	NP_001346644.1	NP_001013577.1	44.108	297	164	2	316	611
7162	NP_001346644.1	NP_001013577.1	41.772	316	179	5	150	465
7163	NP_001346644.1	NP_001013577.1	39.249	293	168	2	329	612
7164	NP_001346644.1	NP_001013577.1	35.843	332	206	5	112	440

7165	NP_001346644.1	XP_009297802.1	42.815	341	193	2	268	608
7166	NP_001346644.1	XP_009297802.1	43.038	316	179	1	297	612
7167	NP_001346644.1	XP_009297802.1	43.493	292	161	4	177	468
7168	NP_001346644.1	XP_009297802.1	37.809	283	173	3	124	406
7169	NP_001346644.1	XP_009297802.1	37.269	271	167	3	113	383
7170	NP_001346644.1	XP_009297802.1	37.563	197	116	2	444	633
7171	NP_001346644.1	XP_021331300.1	40.934	364	206	5	215	577
7172	NP_001346644.1	XP_021331300.1	41.935	341	195	3	266	605
7173	NP_001346644.1	XP_021331300.1	43.293	328	184	2	285	611
7174	NP_001346644.1	XP_021331300.1	40.437	366	209	6	187	551
7175	NP_001346644.1	XP_021331300.1	40.437	366	209	6	159	523
7176	NP_001346644.1	XP_021331300.1	42.308	338	190	2	270	607
7177	NP_001346644.1	XP_021331300.1	42.604	338	181	5	299	628
7178	NP_001346644.1	XP_021331300.1	39.080	348	207	5	149	495
7179	NP_001346644.1	XP_021331300.1	37.143	315	195	3	123	437
7180	NP_001346644.1	XP_021331300.1	37.457	291	178	4	115	404
7181	NP_001346644.1	XP_021331300.1	32.500	240	158	4	114	352
7182	NP_001346644.1	XP_021331041.1	47.260	292	153	1	302	593
7183	NP_001346644.1	XP_021331041.1	44.876	283	155	1	330	612
7184	NP_001346644.1	XP_021331041.1	44.068	295	161	4	215	509
7185	NP_001346644.1	XP_021331041.1	44.366	284	150	3	354	630
7186	NP_001346644.1	XP_021331041.1	41.319	288	165	4	166	453
7187	NP_001346644.1	XP_021331041.1	43.191	257	138	3	386	635
7188	NP_001346644.1	XP_021331041.1	38.516	283	171	3	113	395
7189	NP_001346644.1	XP_017210033.1	42.136	337	193	2	273	609
7190	NP_001346644.1	XP_017210033.1	44.792	288	155	2	330	617
7191	NP_001346644.1	XP_017210033.1	40.000	355	208	5	143	497
7192	NP_001346644.1	XP_017210033.1	41.613	310	180	1	302	611
7193	NP_001346644.1	XP_017210033.1	37.202	336	207	4	134	469
7194	NP_001346644.1	XP_017210033.1	44.269	253	133	2	386	631
7195	NP_001346644.1	XP_017210033.1	30.556	432	252	7	17	414
7196	NP_001346644.1	XP_021325341.1	33.564	578	300	8	116	611
7197	NP_001346644.1	XP_021325341.1	34.631	488	241	14	217	631
7198	NP_001346644.1	XP_021325341.1	31.785	409	234	7	136	500
7199	NP_001346644.1	XP_021325341.1	35.714	238	113	2	438	635
7200	NP_001346644.1	XP_005164989.2	44.304	316	171	2	302	613
7201	NP_001346644.1	XP_005164989.2	42.540	315	175	4	273	583
7202	NP_001346644.1	XP_005164989.2	40.854	328	185	6	148	471
7203	NP_001346644.1	XP_005164989.2	37.049	305	184	5	115	415
7204	NP_001346644.1	XP_005164989.2	34.737	190	115	4	88	273
7205	NP_001346644.1	NP_001103999.1	45.536	336	181	2	275	610
7206	NP_001346644.1	NP_001103999.1	40.896	335	190	2	304	631
7207	NP_001346644.1	NP_001103999.1	39.820	334	195	6	166	498

7208	NP_001346644.1	NP_001103999.1	43.158	285	154	3	354	631
7209	NP_001346644.1	NP_001103999.1	36.697	327	203	4	115	441
7210	NP_001346644.1	NP_001103999.1	33.750	240	156	3	118	357
7211	NP_001346644.1	XP_017211075.1	41.543	337	195	2	273	609
7212	NP_001346644.1	XP_017211075.1	44.097	288	157	2	330	617
7213	NP_001346644.1	XP_017211075.1	41.935	310	179	1	302	611
7214	NP_001346644.1	XP_017211075.1	30.787	432	276	7	17	441
7215	NP_001346644.1	XP_017211075.1	42.688	253	137	2	386	631
7216	NP_001346644.1	XP_017211075.1	26.357	129	95	0	115	243
7217	NP_001346644.1	XP_003198094.1	45.238	336	182	2	275	610
7218	NP_001346644.1	XP_003198094.1	40.597	335	191	2	304	631
7219	NP_001346644.1	XP_003198094.1	40.120	334	194	6	166	498
7220	NP_001346644.1	XP_003198094.1	42.807	285	155	3	354	631
7221	NP_001346644.1	XP_003198094.1	36.391	327	204	4	115	441
7222	NP_001346644.1	XP_003198094.1	33.333	240	157	3	118	357
7223	NP_001346644.1	XP_005168295.1	42.939	347	195	3	246	592
7224	NP_001346644.1	XP_005168295.1	45.455	308	167	1	304	611
7225	NP_001346644.1	XP_005168295.1	43.275	342	190	4	214	555
7226	NP_001346644.1	XP_005168295.1	42.308	338	193	2	275	612
7227	NP_001346644.1	XP_005168295.1	40.356	337	197	4	191	527
7228	NP_001346644.1	XP_005168295.1	40.065	307	176	2	332	631
7229	NP_001346644.1	XP_005168295.1	38.218	348	211	4	166	513
7230	NP_001346644.1	XP_005168295.1	38.194	288	174	4	156	443
7231	NP_001346644.1	XP_005168295.1	34.066	273	177	3	114	386
7232	NP_001346644.1	XP_017211883.2	44.984	309	169	1	304	612
7233	NP_001346644.1	XP_017211883.2	41.071	336	196	2	275	610
7234	NP_001346644.1	XP_017211883.2	39.583	336	199	4	191	526
7235	NP_001346644.1	XP_017211883.2	39.339	333	198	4	166	498
7236	NP_001346644.1	XP_017211883.2	35.780	327	206	4	115	441
7237	NP_001346644.1	XP_017211883.2	36.213	301	188	4	114	414
7238	NP_001346644.1	XP_017211883.2	35.417	144	86	1	495	631
7239	NP_001346644.1	XP_017211121.2	46.284	296	149	2	330	625
7240	NP_001346644.1	XP_017211121.2	47.490	259	135	1	354	612
7241	NP_001346644.1	XP_017211121.2	44.637	289	156	4	212	500
7242	NP_001346644.1	XP_017211121.2	44.048	252	133	3	386	630
7243	NP_001346644.1	XP_017211121.2	41.608	286	163	4	156	441
7244	NP_001346644.1	XP_017211121.2	39.068	279	166	4	136	414
7245	NP_001346644.1	XP_017211121.2	38.148	270	164	3	116	385
7246	NP_001346644.1	NP_001107110.1	41.860	344	194	3	273	612
7247	NP_001346644.1	NP_001107110.1	39.888	356	205	6	148	499
7248	NP_001346644.1	NP_001107110.1	35.135	333	208	5	115	443
7249	NP_001346644.1	NP_001107110.1	32.919	161	106	2	113	273
7250	NP_001346644.1	XP_005158995.1	45.902	305	164	1	304	608

7251	NP_001346644.1	XP_005158995.1	43.974	307	169	3	246	552
7252	NP_001346644.1	XP_005158995.1	45.196	281	153	1	332	612
7253	NP_001346644.1	XP_005158995.1	43.182	308	171	4	217	524
7254	NP_001346644.1	XP_005158995.1	43.728	279	149	2	360	631
7255	NP_001346644.1	XP_005158995.1	37.582	306	187	4	135	440
7256	NP_001346644.1	XP_005158995.1	34.866	261	167	3	123	383
7257	NP_001346644.1	XP_005158995.1	34.335	233	150	3	124	356
7258	NP_001346644.1	XP_005158995.1	34.054	185	119	3	115	299
7259	NP_001346644.1	NP_001353204.1	44.540	348	189	3	270	617
7260	NP_001346644.1	NP_001353204.1	42.286	350	198	4	150	499
7261	NP_001346644.1	NP_001353204.1	48.263	259	133	1	354	612
7262	NP_001346644.1	NP_001353204.1	42.903	310	173	4	166	475
7263	NP_001346644.1	NP_001353204.1	39.818	329	194	4	116	444
7264	NP_001346644.1	NP_001353204.1	30.601	183	97	3	123	277
7265	NP_001346644.1	NP_001353204.1	31.343	134	91	1	115	248
7266	NP_001346644.1	NP_001353204.1	25.000	104	78	0	113	216
7267	NP_001346644.1	NP_001025341.1	40.872	367	212	5	240	605
7268	NP_001346644.1	NP_001025341.1	42.857	315	178	2	298	612
7269	NP_001346644.1	NP_001025341.1	38.107	412	245	9	113	521
7270	NP_001346644.1	XP_021331323.1	47.518	282	147	1	320	601
7271	NP_001346644.1	XP_021331323.1	48.302	265	136	1	348	612
7272	NP_001346644.1	XP_021331323.1	42.754	276	154	4	177	452
7273	NP_001346644.1	XP_021331323.1	38.144	291	177	3	119	409
7274	NP_001346644.1	XP_021331323.1	33.906	233	151	3	116	348
7275	NP_001346644.1	XP_021331323.1	31.868	182	122	2	116	297
7276	NP_001346644.1	XP_021331323.1	25.000	88	66	0	113	200
7277	NP_001346644.1	XP_009299288.1	41.892	370	210	4	240	608
7278	NP_001346644.1	XP_009299288.1	41.463	369	210	6	213	580
7279	NP_001346644.1	XP_009299288.1	42.899	345	193	4	269	612
7280	NP_001346644.1	XP_009299288.1	40.833	360	207	6	166	524
7281	NP_001346644.1	XP_009299288.1	38.310	355	213	5	115	468
7282	NP_001346644.1	XP_009299288.1	32.961	179	119	1	113	291
7283	NP_001346644.1	XP_002661879.3	41.892	370	210	4	240	608
7284	NP_001346644.1	XP_002661879.3	41.463	369	210	6	213	580
7285	NP_001346644.1	XP_002661879.3	42.899	345	193	4	269	612
7286	NP_001346644.1	XP_002661879.3	40.833	360	207	6	166	524
7287	NP_001346644.1	XP_002661879.3	38.310	355	213	5	115	468
7288	NP_001346644.1	XP_002661879.3	32.961	179	119	1	113	291
7289	NP_001346644.1	XP_021322212.1	43.207	368	206	3	244	611
7290	NP_001346644.1	XP_021322212.1	41.902	389	222	4	215	603
7291	NP_001346644.1	XP_021322212.1	32.804	567	307	12	108	611
7292	NP_001346644.1	XP_021322212.1	45.016	311	170	1	302	612
7293	NP_001346644.1	XP_021322212.1	32.386	528	323	6	117	613

7294	NP_001346644.1	XP_021322212.1	38.718	390	235	4	130	519
7295	NP_001346644.1	XP_021322212.1	32.194	556	334	9	115	631
7296	NP_001346644.1	XP_021322212.1	44.108	297	161	2	316	612
7297	NP_001346644.1	XP_021322212.1	33.591	518	284	10	113	586
7298	NP_001346644.1	XP_021330824.1	41.840	337	194	2	273	609
7299	NP_001346644.1	XP_021330824.1	45.066	304	157	3	330	627
7300	NP_001346644.1	XP_021330824.1	41.228	342	200	1	270	611
7301	NP_001346644.1	XP_021330824.1	40.708	339	197	4	159	497
7302	NP_001346644.1	XP_021330824.1	37.798	336	205	4	134	469
7303	NP_001346644.1	XP_021330824.1	45.455	264	135	2	349	612
7304	NP_001346644.1	XP_021330824.1	39.041	292	175	3	123	414
7305	NP_001346644.1	XP_021330824.1	38.745	271	163	3	114	384
7306	NP_001346644.1	XP_021330824.1	25.581	129	96	0	115	243
7307	NP_001346644.1	XP_017210984.1	42.136	337	193	2	273	609
7308	NP_001346644.1	XP_017210984.1	41.813	342	198	1	270	611
7309	NP_001346644.1	XP_017210984.1	45.066	304	157	3	330	627
7310	NP_001346644.1	XP_017210984.1	40.708	339	197	4	159	497
7311	NP_001346644.1	XP_017210984.1	45.645	287	154	2	327	612
7312	NP_001346644.1	XP_017210984.1	37.615	327	200	4	115	441
7313	NP_001346644.1	XP_017210984.1	38.699	292	176	3	123	414
7314	NP_001346644.1	XP_017210984.1	38.376	271	164	3	114	384
7315	NP_001346644.1	XP_017210984.1	26.357	129	95	0	115	243
7316	NP_001346644.1	XP_021331550.1	42.566	343	190	3	269	606
7317	NP_001346644.1	XP_021331550.1	44.828	319	170	2	298	611
7318	NP_001346644.1	XP_021331550.1	40.351	342	197	4	185	522
7319	NP_001346644.1	XP_021331550.1	42.373	295	164	2	328	617
7320	NP_001346644.1	XP_021331550.1	39.645	338	195	5	162	494
7321	NP_001346644.1	XP_021331550.1	37.798	336	200	5	136	466
7322	NP_001346644.1	XP_021331550.1	35.948	306	190	5	136	439
7323	NP_001346644.1	XP_021331550.1	33.846	260	169	3	122	381
7324	NP_001346644.1	XP_021331550.1	33.473	239	156	3	115	353
7325	NP_001346644.1	XP_017212615.1	42.566	343	190	3	269	606
7326	NP_001346644.1	XP_017212615.1	44.828	319	170	2	298	611
7327	NP_001346644.1	XP_017212615.1	40.351	342	197	4	185	522
7328	NP_001346644.1	XP_017212615.1	42.373	295	164	2	328	617
7329	NP_001346644.1	XP_017212615.1	39.645	338	195	5	162	494
7330	NP_001346644.1	XP_017212615.1	37.798	336	200	5	136	466
7331	NP_001346644.1	XP_017212615.1	35.948	306	190	5	136	439
7332	NP_001346644.1	XP_017212615.1	33.846	260	169	3	122	381
7333	NP_001346644.1	XP_017212615.1	33.473	239	156	3	115	353
7334	NP_001346644.1	XP_021331551.1	42.566	343	190	3	269	606
7335	NP_001346644.1	XP_021331551.1	44.828	319	170	2	298	611
7336	NP_001346644.1	XP_021331551.1	40.351	342	197	4	185	522

7337	NP_001346644.1	XP_021331551.1	42.373	295	164	2	328	617
7338	NP_001346644.1	XP_021331551.1	39.645	338	195	5	162	494
7339	NP_001346644.1	XP_021331551.1	37.798	336	200	5	136	466
7340	NP_001346644.1	XP_021331551.1	35.948	306	190	5	136	439
7341	NP_001346644.1	XP_021331551.1	33.846	260	169	3	122	381
7342	NP_001346644.1	XP_021331551.1	33.473	239	156	3	115	353
7343	NP_001346644.1	XP_021330822.1	41.071	392	225	6	187	578
7344	NP_001346644.1	XP_021330822.1	41.918	365	208	4	244	608
7345	NP_001346644.1	XP_021330822.1	37.755	392	238	5	159	550
7346	NP_001346644.1	XP_021330822.1	40.882	340	198	3	273	612
7347	NP_001346644.1	XP_021330822.1	35.000	380	241	6	115	494
7348	NP_001346644.1	XP_021330822.1	39.550	311	147	5	358	631
7349	NP_001346644.1	XP_021330822.1	27.742	155	109	3	118	272
7350	NP_001346644.1	XP_005171144.1	41.994	331	190	2	273	603
7351	NP_001346644.1	XP_005171144.1	41.801	311	180	1	302	612
7352	NP_001346644.1	XP_005171144.1	42.643	333	187	4	187	519
7353	NP_001346644.1	XP_005171144.1	40.476	336	196	4	156	491
7354	NP_001346644.1	XP_005171144.1	38.110	328	199	4	136	463
7355	NP_001346644.1	XP_005171144.1	32.399	321	188	3	115	408
7356	NP_001346644.1	XP_009293355.2	37.267	483	259	12	168	612
7357	NP_001346644.1	XP_009293355.2	33.582	536	310	11	114	611
7358	NP_001346644.1	XP_009293355.2	35.421	511	298	12	118	610
7359	NP_001346644.1	XP_009293355.2	42.708	288	160	4	270	557
7360	NP_001346644.1	XP_009293355.2	39.116	294	175	3	327	620
7361	NP_001346644.1	XP_009293355.2	41.812	287	163	3	299	585
7362	NP_001346644.1	XP_009293355.2	29.981	527	306	11	155	631
7363	NP_001346644.1	XP_009293355.2	33.916	286	157	3	378	631
7364	NP_001346644.1	XP_009293355.2	31.551	187	124	4	115	301
7365	NP_001346644.1	XP_009293355.2	30.270	185	123	5	88	272
7366	NP_001346644.1	XP_005161011.1	45.545	303	163	2	304	605
7367	NP_001346644.1	XP_005161011.1	45.246	305	163	4	246	549
7368	NP_001346644.1	XP_005161011.1	45.230	283	153	2	330	611
7369	NP_001346644.1	XP_005161011.1	43.791	306	169	3	217	522
7370	NP_001346644.1	XP_005161011.1	41.139	316	181	5	151	465
7371	NP_001346644.1	XP_005161011.1	41.914	303	173	3	191	493
7372	NP_001346644.1	XP_005161011.1	40.453	309	173	7	135	439
7373	NP_001346644.1	XP_005161011.1	38.644	295	177	4	114	407
7374	NP_001346644.1	XP_005161011.1	43.668	229	127	2	388	615
7375	NP_001346644.1	XP_005161011.1	36.803	269	166	4	113	380
7376	NP_001346644.1	XP_005161011.1	35.681	213	134	3	113	325
7377	NP_001346644.1	NP_001083032.1	41.322	363	210	3	244	606
7378	NP_001346644.1	NP_001083032.1	41.593	339	196	2	273	611
7379	NP_001346644.1	NP_001083032.1	43.408	311	175	1	302	612

7380	NP_001346644.1	NP_001083032.1	37.463	339	208	4	156	494
7381	NP_001346644.1	NP_001083032.1	41.115	287	160	5	358	640
7382	NP_001346644.1	NP_001083032.1	35.511	352	223	4	115	466
7383	NP_001346644.1	XP_021330710.1	46.959	296	147	2	330	625
7384	NP_001346644.1	XP_021330710.1	46.341	287	146	3	354	633
7385	NP_001346644.1	XP_021330710.1	45.804	286	151	4	215	500
7386	NP_001346644.1	XP_021330710.1	40.909	286	165	4	156	441
7387	NP_001346644.1	XP_021330710.1	36.900	271	168	3	115	385
7388	NP_001346644.1	XP_021330710.1	35.648	216	136	3	114	329
7389	NP_001346644.1	XP_021330441.1	46.690	287	152	1	296	582
7390	NP_001346644.1	XP_021330441.1	43.234	303	164	2	336	631
7391	NP_001346644.1	XP_021330441.1	39.739	307	181	4	164	470
7392	NP_001346644.1	XP_021330441.1	38.487	304	183	4	138	441
7393	NP_001346644.1	XP_021330441.1	37.857	280	170	4	135	414
7394	NP_001346644.1	XP_021330441.1	38.550	262	158	3	124	385
7395	NP_001346644.1	XP_021330441.1	34.395	157	101	2	116	272
7396	NP_001346644.1	XP_021330441.1	28.169	71	51	0	115	185
7397	NP_001346644.1	XP_021330860.1	36.609	407	251	4	214	616
7398	NP_001346644.1	XP_021330860.1	36.667	390	244	3	192	581
7399	NP_001346644.1	XP_021330860.1	38.303	389	235	4	166	553
7400	NP_001346644.1	XP_021330860.1	35.806	391	218	6	136	497
7401	NP_001346644.1	XP_021330860.1	35.235	298	189	4	116	413
7402	NP_001346644.1	XP_021330860.1	34.495	287	180	5	103	384
7403	NP_001346644.1	XP_017208589.1	38.571	420	229	6	215	612
7404	NP_001346644.1	XP_017208589.1	37.965	403	220	6	244	623
7405	NP_001346644.1	XP_017208589.1	37.379	412	201	6	166	527
7406	NP_001346644.1	XP_017208589.1	36.207	406	228	7	118	500
7407	NP_001346644.1	XP_017208589.1	35.884	379	212	8	116	471
7408	NP_001346644.1	XP_021330861.1	36.609	407	251	4	214	616
7409	NP_001346644.1	XP_021330861.1	36.667	390	244	3	192	581
7410	NP_001346644.1	XP_021330861.1	38.303	389	235	4	166	553
7411	NP_001346644.1	XP_021330861.1	35.806	391	218	6	136	497
7412	NP_001346644.1	XP_021330861.1	35.235	298	189	4	116	413
7413	NP_001346644.1	XP_021330861.1	34.495	287	180	5	103	384
7414	NP_001346644.1	XP_021326474.1	48.601	286	146	1	324	609
7415	NP_001346644.1	XP_021326474.1	45.833	264	142	1	349	612
7416	NP_001346644.1	XP_021326474.1	43.151	292	162	4	178	469
7417	NP_001346644.1	XP_021326474.1	45.594	261	134	3	378	631
7418	NP_001346644.1	XP_021326474.1	38.144	291	176	4	123	413
7419	NP_001346644.1	XP_021326474.1	37.175	269	166	3	116	384
7420	NP_001346644.1	XP_017210515.1	48.754	281	143	1	330	610
7421	NP_001346644.1	XP_017210515.1	46.667	285	144	3	354	631
7422	NP_001346644.1	XP_017210515.1	40.909	286	165	4	156	441

7423	NP_001346644.1	XP_017210515.1	36.900	271	168	3	115	385
7424	NP_001346644.1	XP_017210515.1	35.648	216	136	3	114	329
7425	NP_001346644.1	XP_017211227.1	45.608	296	151	2	330	625
7426	NP_001346644.1	XP_017211227.1	48.263	259	133	1	354	612
7427	NP_001346644.1	XP_017211227.1	44.291	289	157	4	212	500
7428	NP_001346644.1	XP_017211227.1	41.608	286	163	4	156	441
7429	NP_001346644.1	XP_017211227.1	44.048	252	133	3	386	630
7430	NP_001346644.1	XP_017211227.1	38.754	289	171	5	136	424
7431	NP_001346644.1	XP_017211227.1	37.778	270	165	3	116	385
7432	NP_001346644.1	NP_001232021.1	43.149	343	193	2	269	611
7433	NP_001346644.1	NP_001232021.1	41.329	346	200	3	240	585
7434	NP_001346644.1	NP_001232021.1	42.029	345	196	4	185	529
7435	NP_001346644.1	NP_001232021.1	43.158	285	161	1	328	612
7436	NP_001346644.1	NP_001232021.1	39.583	336	199	4	166	501
7437	NP_001346644.1	NP_001232021.1	36.254	331	207	4	115	445
7438	NP_001346644.1	NP_001232021.1	39.608	255	146	2	384	631
7439	NP_001346644.1	NP_001232021.1	35.855	304	189	6	116	418
7440	NP_001346644.1	XP_017210839.1	42.262	336	192	2	273	608
7441	NP_001346644.1	XP_017210839.1	40.510	353	205	5	144	496
7442	NP_001346644.1	XP_017210839.1	44.097	288	157	2	330	617
7443	NP_001346644.1	XP_017210839.1	41.613	310	180	1	302	611
7444	NP_001346644.1	XP_017210839.1	38.209	335	203	4	134	468
7445	NP_001346644.1	XP_017210839.1	36.644	292	182	3	123	414
7446	NP_001346644.1	XP_017210839.1	36.296	270	169	3	114	383
7447	NP_001346644.1	XP_017210839.1	26.357	129	95	0	115	243
7448	NP_001346644.1	XP_021323189.1	42.618	359	200	5	215	573
7449	NP_001346644.1	XP_021323189.1	39.944	358	210	4	244	601
7450	NP_001346644.1	XP_021323189.1	39.823	339	200	4	273	611
7451	NP_001346644.1	XP_021323189.1	38.623	334	200	5	156	489
7452	NP_001346644.1	XP_021323189.1	37.304	319	195	5	115	433
7453	NP_001346644.1	XP_021323189.1	37.281	228	134	4	415	635
7454	NP_001346644.1	XP_021323189.1	28.099	121	87	0	113	233
7455	NP_001346644.1	XP_021330862.1	36.609	407	251	4	214	616
7456	NP_001346644.1	XP_021330862.1	36.667	390	244	3	192	581
7457	NP_001346644.1	XP_021330862.1	38.303	389	235	4	166	553
7458	NP_001346644.1	XP_021330862.1	35.806	391	218	6	136	497
7459	NP_001346644.1	XP_021330862.1	35.235	298	189	4	116	413
7460	NP_001346644.1	XP_021330862.1	34.495	287	180	5	103	384
7461	NP_001346644.1	NP_001104625.1	48.754	281	143	1	330	610
7462	NP_001346644.1	NP_001104625.1	46.667	285	144	3	354	631
7463	NP_001346644.1	NP_001104625.1	40.909	286	165	4	156	441
7464	NP_001346644.1	NP_001104625.1	36.900	271	168	3	115	385
7465	NP_001346644.1	NP_001104625.1	35.648	216	136	3	114	329

7466	NP_001346644.1	XP_017206631.1	41.945	329	189	2	273	601
7467	NP_001346644.1	XP_017206631.1	39.875	321	191	2	292	612
7468	NP_001346644.1	XP_017206631.1	40.729	329	191	4	191	519
7469	NP_001346644.1	XP_017206631.1	37.859	383	226	7	114	489
7470	NP_001346644.1	XP_017206631.1	38.340	253	148	2	386	631
7471	NP_001346644.1	XP_017206631.1	35.374	294	187	3	115	408
7472	NP_001346644.1	XP_005171145.1	41.945	329	189	2	273	601
7473	NP_001346644.1	XP_005171145.1	39.875	321	191	2	292	612
7474	NP_001346644.1	XP_005171145.1	40.729	329	191	4	191	519
7475	NP_001346644.1	XP_005171145.1	37.859	383	226	7	114	489
7476	NP_001346644.1	XP_005171145.1	38.340	253	148	2	386	631
7477	NP_001346644.1	XP_005171145.1	35.374	294	187	3	115	408
7478	NP_001346644.1	NP_001315634.1	45.608	296	151	2	330	625
7479	NP_001346644.1	NP_001315634.1	49.035	259	131	1	354	612
7480	NP_001346644.1	NP_001315634.1	43.945	289	158	4	212	500
7481	NP_001346644.1	NP_001315634.1	42.308	286	161	4	156	441
7482	NP_001346644.1	NP_001315634.1	44.048	252	133	3	386	630
7483	NP_001346644.1	NP_001315634.1	37.407	270	166	3	116	385
7484	NP_001346644.1	XP_009293351.1	42.647	340	192	3	266	604
7485	NP_001346644.1	XP_009293351.1	43.396	318	178	2	295	611
7486	NP_001346644.1	XP_009293351.1	41.543	337	193	4	215	551
7487	NP_001346644.1	XP_009293351.1	40.000	355	205	5	141	495
7488	NP_001346644.1	XP_009293351.1	40.294	340	199	4	192	531
7489	NP_001346644.1	XP_009293351.1	39.339	333	198	4	135	467
7490	NP_001346644.1	XP_009293351.1	36.102	313	196	4	124	436
7491	NP_001346644.1	XP_009293351.1	34.932	292	187	3	115	406
7492	NP_001346644.1	XP_009293351.1	38.767	227	138	1	386	612
7493	NP_001346644.1	XP_009293351.1	33.708	267	174	3	116	382
7494	NP_001346644.1	XP_009293351.1	33.891	239	155	3	113	351
7495	NP_001346644.1	XP_009293351.1	27.103	107	78	0	113	219
7496	NP_001346644.1	XP_009293350.1	42.647	340	192	3	266	604
7497	NP_001346644.1	XP_009293350.1	43.396	318	178	2	295	611
7498	NP_001346644.1	XP_009293350.1	41.543	337	193	4	215	551
7499	NP_001346644.1	XP_009293350.1	40.000	355	205	5	141	495
7500	NP_001346644.1	XP_009293350.1	40.294	340	199	4	192	531
7501	NP_001346644.1	XP_009293350.1	39.339	333	198	4	135	467
7502	NP_001346644.1	XP_009293350.1	36.102	313	196	4	124	436
7503	NP_001346644.1	XP_009293350.1	34.932	292	187	3	115	406
7504	NP_001346644.1	XP_009293350.1	38.767	227	138	1	386	612
7505	NP_001346644.1	XP_009293350.1	33.708	267	174	3	116	382
7506	NP_001346644.1	XP_009293350.1	33.891	239	155	3	113	351
7507	NP_001346644.1	XP_009293350.1	27.103	107	78	0	113	219
7508	NP_001346644.1	XP_021330857.1	47.842	278	143	2	330	607

7509	NP_001346644.1	XP_021330857.1	47.312	279	144	3	273	551
7510	NP_001346644.1	XP_021330857.1	50.579	259	126	2	354	612
7511	NP_001346644.1	XP_021330857.1	44.366	284	153	5	212	495
7512	NP_001346644.1	XP_021330857.1	37.313	268	164	4	115	382
7513	NP_001346644.1	XP_021330857.1	37.557	221	135	3	136	356
7514	NP_001346644.1	XP_005170442.1	46.667	315	167	1	295	609
7515	NP_001346644.1	XP_005170442.1	46.233	292	156	1	321	612
7516	NP_001346644.1	XP_005170442.1	39.938	323	190	4	116	438
7517	NP_001346644.1	XP_005170442.1	43.462	260	139	2	379	631
7518	NP_001346644.1	XP_005170442.1	44.872	234	122	1	405	631
7519	NP_001346644.1	XP_005170442.1	39.416	274	159	4	108	381
7520	NP_001346644.1	XP_017211183.1	49.807	259	129	1	354	612
7521	NP_001346644.1	XP_017211183.1	48.047	256	132	1	330	585
7522	NP_001346644.1	XP_017211183.1	43.243	259	143	4	187	445
7523	NP_001346644.1	XP_017211183.1	34.959	246	157	3	115	360
7524	NP_001346644.1	XP_017211183.1	36.471	170	105	3	136	305
7525	NP_001346644.1	XP_017211183.1	32.317	164	109	2	113	276
7526	NP_001346644.1	XP_021324621.1	41.111	360	189	4	263	601
7527	NP_001346644.1	XP_021324621.1	40.176	341	182	3	292	611
7528	NP_001346644.1	XP_021324621.1	38.663	344	188	4	166	489
7529	NP_001346644.1	XP_021324621.1	40.000	350	185	5	180	508
7530	NP_001346644.1	XP_021324621.1	37.569	362	201	6	121	461
7531	NP_001346644.1	XP_021324621.1	41.135	282	144	2	352	612
7532	NP_001346644.1	XP_021324621.1	34.322	236	152	3	113	348
7533	NP_001346644.1	XP_017209942.1	45.946	296	150	2	330	625
7534	NP_001346644.1	XP_017209942.1	49.035	259	131	1	354	612
7535	NP_001346644.1	XP_017209942.1	43.945	289	158	4	212	500
7536	NP_001346644.1	XP_017209942.1	42.308	286	161	4	156	441
7537	NP_001346644.1	XP_017209942.1	39.100	289	170	5	136	424
7538	NP_001346644.1	XP_017209942.1	37.778	270	165	3	116	385
7539	NP_001346644.1	NP_001103202.1	41.237	388	222	6	191	578
7540	NP_001346644.1	NP_001103202.1	41.644	365	209	4	244	608
7541	NP_001346644.1	NP_001103202.1	37.500	392	239	5	159	550
7542	NP_001346644.1	NP_001103202.1	40.882	340	198	3	273	612
7543	NP_001346644.1	NP_001103202.1	35.000	380	241	6	115	494
7544	NP_001346644.1	NP_001103202.1	39.228	311	148	5	358	631
7545	NP_001346644.1	NP_001103202.1	28.777	139	97	2	134	272
7546	NP_001346644.1	NP_001103202.1	27.778	126	90	1	118	243
7547	NP_001346644.1	XP_009301276.1	42.733	344	193	3	266	606
7548	NP_001346644.1	XP_009301276.1	45.048	313	171	1	299	611
7549	NP_001346644.1	XP_009301276.1	42.169	332	188	4	191	522
7550	NP_001346644.1	XP_009301276.1	43.509	285	153	3	354	631
7551	NP_001346644.1	XP_009301276.1	38.066	331	201	4	109	439

7552	NP_001346644.1	XP_009301276.1	34.627	335	205	5	71	405
7553	NP_001346644.1	XP_009301276.1	37.778	180	105	2	459	631
7554	NP_001346644.1	NP_001314845.1	42.286	350	196	3	260	605
7555	NP_001346644.1	NP_001314845.1	42.945	326	181	2	291	612
7556	NP_001346644.1	NP_001314845.1	38.187	364	217	6	130	493
7557	NP_001346644.1	NP_001314845.1	36.615	325	202	4	113	437
7558	NP_001346644.1	NP_001314845.1	43.721	215	117	1	402	612
7559	NP_001346644.1	NP_001314845.1	40.000	215	126	1	398	612
7560	NP_001346644.1	XP_017209950.1	44.828	319	175	1	299	617
7561	NP_001346644.1	XP_017209950.1	42.733	344	193	3	266	606
7562	NP_001346644.1	XP_017209950.1	41.765	340	194	4	183	522
7563	NP_001346644.1	XP_017209950.1	43.728	279	149	3	360	631
7564	NP_001346644.1	XP_017209950.1	38.066	331	201	4	109	439
7565	NP_001346644.1	XP_017209950.1	34.524	336	206	5	71	406
7566	NP_001346644.1	XP_017209950.1	38.333	180	104	2	459	631
7567	NP_001346644.1	XP_017210690.1	41.840	337	194	2	273	609
7568	NP_001346644.1	XP_017210690.1	44.737	304	158	3	330	627
7569	NP_001346644.1	XP_017210690.1	40.118	339	199	4	159	497
7570	NP_001346644.1	XP_017210690.1	33.933	389	246	6	60	441
7571	NP_001346644.1	XP_017210690.1	38.699	292	176	3	123	414
7572	NP_001346644.1	XP_017210690.1	42.798	243	130	2	370	612
7573	NP_001346644.1	XP_017210690.1	25.581	129	96	0	115	243
7574	NP_001346644.1	XP_017206666.1	37.273	440	258	9	183	612
7575	NP_001346644.1	XP_017206666.1	34.437	453	279	9	132	574
7576	NP_001346644.1	XP_017206666.1	33.596	381	241	7	117	490
7577	NP_001346644.1	XP_017206666.1	33.239	355	225	7	115	462
7578	NP_001346644.1	XP_017211176.1	47.203	286	144	2	330	609
7579	NP_001346644.1	XP_017211176.1	48.252	286	139	4	246	525
7580	NP_001346644.1	XP_017211176.1	48.592	284	139	2	304	581
7581	NP_001346644.1	XP_017211176.1	50.758	264	123	2	354	611
7582	NP_001346644.1	XP_017211176.1	45.645	287	146	5	217	497
7583	NP_001346644.1	XP_017211176.1	44.912	285	147	5	191	469
7584	NP_001346644.1	XP_017211176.1	40.845	284	158	5	136	413
7585	NP_001346644.1	XP_017211176.1	39.785	279	153	6	115	384
7586	NP_001346644.1	XP_017211176.1	32.692	52	35	0	135	186
7587	NP_001346644.1	XP_021325083.1	44.551	312	171	2	273	584
7588	NP_001346644.1	XP_021325083.1	44.194	310	172	1	302	611
7589	NP_001346644.1	XP_021325083.1	42.675	314	176	4	215	528
7590	NP_001346644.1	XP_021325083.1	42.765	311	174	4	187	497
7591	NP_001346644.1	XP_021325083.1	44.615	260	143	1	358	617
7592	NP_001346644.1	XP_021325083.1	37.124	299	184	4	118	416
7593	NP_001346644.1	XP_021325083.1	35.366	246	156	3	114	359
7594	NP_001346644.1	NP_001107945.1	36.854	426	258	6	103	525

7595	NP_001346644.1	NP_001107945.1	38.798	366	221	3	244	609
7596	NP_001346644.1	NP_001107945.1	39.412	340	204	2	273	612
7597	NP_001346644.1	NP_001107945.1	39.169	337	197	2	302	631
7598	NP_001346644.1	XP_017210985.1	44.013	309	171	2	273	581
7599	NP_001346644.1	XP_017210985.1	45.455	308	157	4	327	627
7600	NP_001346644.1	XP_017210985.1	40.294	340	202	1	270	609
7601	NP_001346644.1	XP_017210985.1	44.326	282	156	1	330	611
7602	NP_001346644.1	XP_017210985.1	40.514	311	181	4	159	469
7603	NP_001346644.1	XP_017210985.1	39.286	308	183	4	134	441
7604	NP_001346644.1	XP_017210985.1	37.667	300	184	3	115	414
7605	NP_001346644.1	XP_017210985.1	35.124	242	154	3	114	355
7606	NP_001346644.1	XP_005168173.1	37.089	426	257	6	103	525
7607	NP_001346644.1	XP_005168173.1	39.071	366	220	3	244	609
7608	NP_001346644.1	XP_005168173.1	39.466	337	196	2	302	631
7609	NP_001346644.1	XP_005168173.1	39.412	340	204	2	273	612
7610	NP_001346644.1	XP_021326253.1	42.949	312	177	1	301	612
7611	NP_001346644.1	XP_021326253.1	43.770	313	173	3	243	555
7612	NP_001346644.1	XP_021326253.1	43.643	291	162	2	322	611
7613	NP_001346644.1	XP_021326253.1	39.241	316	188	4	156	471
7614	NP_001346644.1	XP_021326253.1	43.460	237	132	2	379	614
7615	NP_001346644.1	XP_021326253.1	38.538	301	181	4	115	415
7616	NP_001346644.1	XP_021326248.1	42.949	312	177	1	301	612
7617	NP_001346644.1	XP_021326248.1	43.770	313	173	3	243	555
7618	NP_001346644.1	XP_021326248.1	43.643	291	162	2	322	611
7619	NP_001346644.1	XP_021326248.1	39.241	316	188	4	156	471
7620	NP_001346644.1	XP_021326248.1	43.460	237	132	2	379	614
7621	NP_001346644.1	XP_021326248.1	38.538	301	181	4	115	415
7622	NP_001346644.1	XP_021326244.1	42.949	312	177	1	301	612
7623	NP_001346644.1	XP_021326244.1	43.770	313	173	3	243	555
7624	NP_001346644.1	XP_021326244.1	43.643	291	162	2	322	611
7625	NP_001346644.1	XP_021326244.1	39.241	316	188	4	156	471
7626	NP_001346644.1	XP_021326244.1	43.460	237	132	2	379	614
7627	NP_001346644.1	XP_021326244.1	38.538	301	181	4	115	415
7628	NP_001346644.1	XP_021326240.1	42.949	312	177	1	301	612
7629	NP_001346644.1	XP_021326240.1	43.770	313	173	3	243	555
7630	NP_001346644.1	XP_021326240.1	43.643	291	162	2	322	611
7631	NP_001346644.1	XP_021326240.1	39.241	316	188	4	156	471
7632	NP_001346644.1	XP_021326240.1	43.460	237	132	2	379	614
7633	NP_001346644.1	XP_021326240.1	38.538	301	181	4	115	415
7634	NP_001346644.1	XP_021326234.1	42.949	312	177	1	301	612
7635	NP_001346644.1	XP_021326234.1	43.770	313	173	3	243	555
7636	NP_001346644.1	XP_021326234.1	43.643	291	162	2	322	611
7637	NP_001346644.1	XP_021326234.1	39.241	316	188	4	156	471

7638	NP_001346644.1	XP_021326234.1	43.460	237	132	2	379	614
7639	NP_001346644.1	XP_021326234.1	38.538	301	181	4	115	415
7640	NP_001346644.1	XP_021326232.1	42.949	312	177	1	301	612
7641	NP_001346644.1	XP_021326232.1	43.770	313	173	3	243	555
7642	NP_001346644.1	XP_021326232.1	43.643	291	162	2	322	611
7643	NP_001346644.1	XP_021326232.1	39.241	316	188	4	156	471
7644	NP_001346644.1	XP_021326232.1	43.460	237	132	2	379	614
7645	NP_001346644.1	XP_021326232.1	38.538	301	181	4	115	415
7646	NP_001346644.1	XP_021331458.1	45.270	296	152	2	330	625
7647	NP_001346644.1	XP_021331458.1	48.649	259	132	1	354	612
7648	NP_001346644.1	XP_021331458.1	43.945	289	158	4	212	500
7649	NP_001346644.1	XP_021331458.1	41.958	286	162	4	156	441
7650	NP_001346644.1	XP_021331458.1	43.651	252	134	3	386	630
7651	NP_001346644.1	XP_021331458.1	38.754	289	171	5	136	424
7652	NP_001346644.1	XP_021331458.1	37.407	270	166	3	116	385
7653	NP_001346644.1	XP_017211078.1	44.156	308	170	2	273	580
7654	NP_001346644.1	XP_017211078.1	49.615	260	127	2	358	617
7655	NP_001346644.1	XP_017211078.1	40.413	339	201	1	270	608
7656	NP_001346644.1	XP_017211078.1	40.000	310	182	4	159	468
7657	NP_001346644.1	XP_017211078.1	38.436	307	185	4	134	440
7658	NP_001346644.1	XP_017211078.1	35.028	354	220	5	60	406
7659	NP_001346644.1	XP_017211078.1	39.847	261	154	3	123	383
7660	NP_001346644.1	XP_017211078.1	35.124	242	154	3	114	355
7661	NP_001346644.1	XP_021327368.1	44.771	306	168	1	304	609
7662	NP_001346644.1	XP_021327368.1	45.936	283	152	1	330	612
7663	NP_001346644.1	XP_021327368.1	42.345	307	173	4	191	497
7664	NP_001346644.1	XP_021327368.1	44.828	261	143	1	354	614
7665	NP_001346644.1	XP_021327368.1	39.145	304	181	4	166	469
7666	NP_001346644.1	XP_021327368.1	40.070	287	168	4	156	442
7667	NP_001346644.1	XP_021327368.1	37.162	296	182	4	118	413
7668	NP_001346644.1	XP_021327368.1	34.884	129	83	1	114	242
7669	NP_001346644.1	XP_021332373.1	44.771	306	168	1	304	609
7670	NP_001346644.1	XP_021332373.1	45.936	283	152	1	330	612
7671	NP_001346644.1	XP_021332373.1	42.345	307	173	4	191	497
7672	NP_001346644.1	XP_021332373.1	44.828	261	143	1	354	614
7673	NP_001346644.1	XP_021332373.1	39.145	304	181	4	166	469
7674	NP_001346644.1	XP_021332373.1	40.070	287	168	4	156	442
7675	NP_001346644.1	XP_021332373.1	37.162	296	182	4	118	413
7676	NP_001346644.1	XP_021332373.1	34.884	129	83	1	114	242
7677	NP_001346644.1	XP_021325239.1	43.202	331	186	2	273	603
7678	NP_001346644.1	XP_021325239.1	41.935	310	179	1	302	611
7679	NP_001346644.1	XP_021325239.1	42.361	288	164	2	325	611
7680	NP_001346644.1	XP_021325239.1	42.731	227	129	1	386	612

7681	NP_001346644.1	XP_021325239.1	32.578	353	229	5	88	435
7682	NP_001346644.1	XP_021325239.1	36.735	294	183	3	115	408
7683	NP_001346644.1	XP_017208841.1	43.202	331	186	2	273	603
7684	NP_001346644.1	XP_017208841.1	41.935	310	179	1	302	611
7685	NP_001346644.1	XP_017208841.1	42.361	288	164	2	325	611
7686	NP_001346644.1	XP_017208841.1	42.731	227	129	1	386	612
7687	NP_001346644.1	XP_017208841.1	32.578	353	229	5	88	435
7688	NP_001346644.1	XP_017208841.1	36.735	294	183	3	115	408
7689	NP_001346644.1	XP_021330829.1	50.000	254	126	1	302	555
7690	NP_001346644.1	XP_021330829.1	48.872	266	135	1	318	583
7691	NP_001346644.1	XP_021330829.1	47.191	267	140	1	346	612
7692	NP_001346644.1	XP_021330829.1	46.640	253	127	3	386	631
7693	NP_001346644.1	XP_021330829.1	46.245	253	132	4	191	443
7694	NP_001346644.1	XP_021330829.1	42.279	272	153	4	147	418
7695	NP_001346644.1	XP_021330829.1	37.295	244	150	3	115	358
7696	NP_001346644.1	XP_021330829.1	31.373	102	70	0	114	215
7697	NP_001346644.1	XP_021324624.1	38.147	367	225	2	244	610
7698	NP_001346644.1	XP_021324624.1	37.463	339	211	1	273	611
7699	NP_001346644.1	XP_021324624.1	38.838	327	198	2	287	612
7700	NP_001346644.1	XP_021324624.1	37.838	333	203	4	166	498
7701	NP_001346644.1	XP_021324624.1	34.870	347	222	4	124	470
7702	NP_001346644.1	XP_021324624.1	35.276	326	207	4	113	438
7703	NP_001346644.1	XP_021324624.1	33.003	303	193	5	118	414
7704	NP_001346644.1	XP_021324624.1	33.878	245	159	3	113	357
7705	NP_001346644.1	XP_017208521.1	38.147	367	225	2	244	610
7706	NP_001346644.1	XP_017208521.1	37.463	339	211	1	273	611
7707	NP_001346644.1	XP_017208521.1	38.838	327	198	2	287	612
7708	NP_001346644.1	XP_017208521.1	37.838	333	203	4	166	498
7709	NP_001346644.1	XP_017208521.1	34.870	347	222	4	124	470
7710	NP_001346644.1	XP_017208521.1	35.276	326	207	4	113	438
7711	NP_001346644.1	XP_017208521.1	33.003	303	193	5	118	414
7712	NP_001346644.1	XP_017208521.1	33.878	245	159	3	113	357
7713	NP_001346644.1	XP_021324623.1	38.147	367	225	2	244	610
7714	NP_001346644.1	XP_021324623.1	37.463	339	211	1	273	611
7715	NP_001346644.1	XP_021324623.1	38.838	327	198	2	287	612
7716	NP_001346644.1	XP_021324623.1	37.838	333	203	4	166	498
7717	NP_001346644.1	XP_021324623.1	34.870	347	222	4	124	470
7718	NP_001346644.1	XP_021324623.1	35.276	326	207	4	113	438
7719	NP_001346644.1	XP_021324623.1	33.003	303	193	5	118	414
7720	NP_001346644.1	XP_021324623.1	33.878	245	159	3	113	357
7721	NP_001346644.1	XP_017209999.1	46.429	280	149	1	330	609
7722	NP_001346644.1	XP_017209999.1	48.062	258	133	1	354	611
7723	NP_001346644.1	XP_017209999.1	45.583	283	150	4	215	497

7724	NP_001346644.1	XP_017209999.1	44.706	255	129	3	386	631
7725	NP_001346644.1	XP_017209999.1	37.584	298	174	5	118	406
7726	NP_001346644.1	XP_017209999.1	37.407	270	166	3	115	384
7727	NP_001346644.1	XP_017209999.1	34.711	242	155	3	114	355
7728	NP_001346644.1	XP_017209999.1	35.349	215	136	3	114	328
7729	NP_001346644.1	XP_017209999.1	26.733	101	74	0	113	213
7730	NP_001346644.1	XP_017209999.1	25.510	98	70	1	89	186
7731	NP_001346644.1	XP_021331384.1	41.543	337	195	2	273	609
7732	NP_001346644.1	XP_021331384.1	41.888	339	196	1	270	608
7733	NP_001346644.1	XP_021331384.1	44.737	304	158	3	330	627
7734	NP_001346644.1	XP_021331384.1	40.413	339	198	4	159	497
7735	NP_001346644.1	XP_021331384.1	37.003	327	202	4	115	441
7736	NP_001346644.1	XP_021331384.1	38.007	271	165	3	114	384
7737	NP_001346644.1	XP_021331389.1	46.959	296	147	2	330	625
7738	NP_001346644.1	XP_021331389.1	50.391	256	126	1	354	609
7739	NP_001346644.1	XP_021331389.1	44.755	286	154	4	215	500
7740	NP_001346644.1	XP_021331389.1	42.657	286	160	4	156	441
7741	NP_001346644.1	XP_021331389.1	39.203	301	178	5	115	414
7742	NP_001346644.1	XP_021331389.1	45.226	199	102	2	440	631
7743	NP_001346644.1	XP_021331018.1	49.117	283	137	2	333	609
7744	NP_001346644.1	XP_021331018.1	41.806	299	155	6	158	441
7745	NP_001346644.1	XP_021331018.1	45.418	251	129	3	392	635
7746	NP_001346644.1	XP_021331018.1	37.500	272	167	3	113	384
7747	NP_001346644.1	NP_001314932.1	46.429	280	149	1	330	609
7748	NP_001346644.1	NP_001314932.1	47.674	258	134	1	354	611
7749	NP_001346644.1	NP_001314932.1	43.007	286	159	4	212	497
7750	NP_001346644.1	NP_001314932.1	48.018	227	117	1	386	612
7751	NP_001346644.1	NP_001314932.1	39.922	258	151	4	156	413
7752	NP_001346644.1	NP_001314932.1	36.765	272	169	3	113	384
7753	NP_001346644.1	NP_001314932.1	34.921	63	41	0	124	186
7754	NP_001346644.1	XP_021325240.1	43.202	331	186	2	273	603
7755	NP_001346644.1	XP_021325240.1	41.935	310	179	1	302	611
7756	NP_001346644.1	XP_021325240.1	42.361	288	164	2	325	611
7757	NP_001346644.1	XP_021325240.1	42.731	227	129	1	386	612
7758	NP_001346644.1	XP_021325240.1	32.578	353	229	5	88	435
7759	NP_001346644.1	NP_001314815.1	49.807	259	129	1	354	612
7760	NP_001346644.1	NP_001314815.1	49.609	256	128	1	330	585
7761	NP_001346644.1	NP_001314815.1	46.512	258	135	3	244	501
7762	NP_001346644.1	NP_001314815.1	41.107	253	146	3	136	388
7763	NP_001346644.1	NP_001314815.1	38.776	245	147	3	116	360
7764	NP_001346644.1	NP_001314815.1	35.519	183	115	3	123	305
7765	NP_001346644.1	XP_009294175.1	43.770	313	175	1	294	606
7766	NP_001346644.1	XP_009294175.1	42.769	325	184	2	254	578

7767	NP_001346644.1	XP_009294175.1	42.540	315	178	3	236	550
7768	NP_001346644.1	XP_009294175.1	47.148	263	138	1	350	612
7769	NP_001346644.1	XP_009294175.1	43.793	290	162	1	323	612
7770	NP_001346644.1	XP_009294175.1	39.365	315	187	4	152	466
7771	NP_001346644.1	XP_009294175.1	43.023	258	139	2	381	631
7772	NP_001346644.1	XP_009294175.1	37.671	292	179	3	115	406
7773	NP_001346644.1	XP_009294175.1	32.864	213	140	3	113	325
7774	NP_001346644.1	XP_005158087.1	36.468	436	246	5	182	606
7775	NP_001346644.1	XP_005158087.1	35.116	430	246	6	194	611
7776	NP_001346644.1	XP_005158087.1	37.049	305	188	4	134	438
7777	NP_001346644.1	XP_005158087.1	36.897	290	180	3	118	407
7778	NP_001346644.1	XP_005158087.1	33.019	212	139	3	114	325
7779	NP_001346644.1	XP_005158087.1	25.595	168	93	6	499	635
7780	NP_001346644.1	XP_021327152.1	35.729	473	259	7	166	606
7781	NP_001346644.1	XP_021327152.1	33.982	565	281	15	156	631
7782	NP_001346644.1	XP_021327152.1	39.564	321	160	4	325	612
7783	NP_001346644.1	XP_021327152.1	39.748	317	151	4	354	631
7784	NP_001346644.1	XP_021327152.1	33.705	359	204	5	115	442
7785	NP_001346644.1	XP_021327152.1	35.193	233	112	4	442	635
7786	NP_001346644.1	XP_021327152.1	45.775	142	77	0	471	612
7787	NP_001346644.1	XP_021327152.1	31.757	148	100	1	115	262
7788	NP_001346644.1	XP_021327152.1	33.898	59	39	0	152	210
7789	NP_001346644.1	XP_021331509.1	45.324	278	151	1	330	607
7790	NP_001346644.1	XP_021331509.1	45.161	279	150	3	244	522
7791	NP_001346644.1	XP_021331509.1	45.174	259	141	1	354	612
7792	NP_001346644.1	XP_021331509.1	42.143	280	158	4	215	494
7793	NP_001346644.1	XP_021331509.1	40.000	280	164	4	187	466
7794	NP_001346644.1	XP_021331509.1	39.855	276	162	4	166	441
7795	NP_001346644.1	XP_021331509.1	35.206	267	170	3	115	381
7796	NP_001346644.1	XP_021331509.1	37.799	209	124	4	146	354
7797	NP_001346644.1	XP_021331509.1	28.477	151	107	1	114	264
7798	NP_001346644.1	XP_021331509.1	28.571	91	65	0	123	213
7799	NP_001346644.1	XP_017211163.1	43.689	309	172	2	273	581
7800	NP_001346644.1	XP_017211163.1	42.857	308	175	1	302	609
7801	NP_001346644.1	XP_017211163.1	47.308	260	133	2	358	617
7802	NP_001346644.1	XP_017211163.1	35.000	340	200	6	86	414
7803	NP_001346644.1	XP_021321970.1	34.879	496	317	5	115	609
7804	NP_001346644.1	XP_021321970.1	32.990	485	293	4	156	612
7805	NP_001346644.1	XP_021321970.1	30.132	604	349	11	74	611
7806	NP_001346644.1	XP_021321970.1	32.869	502	286	8	156	611
7807	NP_001346644.1	XP_021321970.1	29.703	606	313	11	116	611
7808	NP_001346644.1	XP_021321970.1	38.503	374	225	5	237	609
7809	NP_001346644.1	XP_021321970.1	30.688	567	317	10	118	611

7810	NP_001346644.1	XP_021321970.1	30.677	502	297	10	156	611
7811	NP_001346644.1	XP_021321970.1	37.464	347	213	4	266	611
7812	NP_001346644.1	XP_021321970.1	31.262	515	281	11	166	609
7813	NP_001346644.1	XP_021321970.1	29.286	560	304	15	165	636
7814	NP_001346644.1	XP_021321970.1	35.857	251	154	4	380	629
7815	NP_001346644.1	XP_021321970.1	23.590	195	139	5	74	264
7816	NP_001346644.1	XP_021329631.1	46.259	294	155	2	287	578
7817	NP_001346644.1	XP_021329631.1	46.667	285	149	2	324	606
7818	NP_001346644.1	XP_021329631.1	49.231	260	131	1	352	611
7819	NP_001346644.1	XP_021329631.1	43.729	295	161	4	230	522
7820	NP_001346644.1	XP_021329631.1	40.000	275	159	5	166	438
7821	NP_001346644.1	XP_021329631.1	48.341	211	109	0	401	611
7822	NP_001346644.1	XP_021329631.1	38.078	281	171	3	124	404
7823	NP_001346644.1	XP_021329631.1	35.821	268	167	4	116	381
7824	NP_001346644.1	XP_021329631.1	26.882	93	68	0	113	205
7825	NP_001346644.1	XP_009299293.1	44.478	335	182	4	244	578
7826	NP_001346644.1	XP_009299293.1	43.322	307	173	1	302	608
7827	NP_001346644.1	XP_009299293.1	41.964	336	190	5	215	550
7828	NP_001346644.1	XP_009299293.1	42.904	303	167	2	315	612
7829	NP_001346644.1	XP_009299293.1	38.303	389	224	8	113	494
7830	NP_001346644.1	XP_009299293.1	36.280	328	204	5	111	438
7831	NP_001346644.1	XP_009299293.1	42.012	169	98	0	471	639
7832	NP_001346644.1	XP_017211221.1	42.345	307	176	1	302	608
7833	NP_001346644.1	XP_017211221.1	44.681	282	155	1	330	611
7834	NP_001346644.1	XP_017211221.1	47.308	260	133	2	358	617
7835	NP_001346644.1	XP_017211221.1	38.504	361	212	6	113	468
7836	NP_001346644.1	XP_017211221.1	31.111	405	257	6	17	414
7837	NP_001346644.1	XP_005161642.2	41.504	359	183	5	275	608
7838	NP_001346644.1	XP_005161642.2	39.375	320	167	2	316	611
7839	NP_001346644.1	XP_005161642.2	37.838	333	181	3	304	611
7840	NP_001346644.1	XP_005161642.2	36.757	370	207	4	151	496
7841	NP_001346644.1	XP_005161642.2	37.023	262	162	3	143	404
7842	NP_001346644.1	XP_005161642.2	35.081	248	158	3	136	383
7843	NP_001346644.1	XP_005161642.2	32.917	240	158	3	118	357
7844	NP_001346644.1	XP_005161642.2	34.419	215	138	3	113	327
7845	NP_001346644.1	XP_021331129.1	42.540	315	179	2	297	610
7846	NP_001346644.1	XP_021331129.1	44.444	288	156	2	330	617
7847	NP_001346644.1	XP_021331129.1	41.611	298	173	1	314	611
7848	NP_001346644.1	XP_021331129.1	31.221	426	269	7	17	437
7849	NP_001346644.1	XP_021331129.1	30.189	212	145	3	114	325
7850	NP_001346644.1	XP_001921925.4	34.879	496	317	5	115	609
7851	NP_001346644.1	XP_001921925.4	32.990	485	293	4	156	612
7852	NP_001346644.1	XP_001921925.4	30.132	604	349	11	74	611

7853	NP_001346644.1	XP_001921925.4	32.869	502	286	8	156	611
7854	NP_001346644.1	XP_001921925.4	38.503	374	225	5	237	609
7855	NP_001346644.1	XP_001921925.4	30.677	502	297	10	156	611
7856	NP_001346644.1	XP_001921925.4	37.464	347	213	4	266	611
7857	NP_001346644.1	XP_001921925.4	31.002	529	277	12	146	609
7858	NP_001346644.1	XP_001921925.4	31.099	537	282	12	146	617
7859	NP_001346644.1	XP_001921925.4	30.709	508	288	10	166	611
7860	NP_001346644.1	XP_001921925.4	29.032	589	326	15	136	636
7861	NP_001346644.1	XP_001921925.4	27.896	613	332	15	102	609
7862	NP_001346644.1	XP_001921925.4	30.185	540	300	13	146	611
7863	NP_001346644.1	XP_001921925.4	27.882	642	313	20	123	617
7864	NP_001346644.1	XP_001921925.4	27.838	643	306	17	124	611
7865	NP_001346644.1	XP_001921925.4	35.857	251	154	4	380	629
7866	NP_001346644.1	XP_001921925.4	23.590	195	139	5	74	264
7867	NP_001346644.1	XP_017211286.1	46.690	287	145	2	354	633
7868	NP_001346644.1	XP_017211286.1	45.993	287	151	4	214	500
7869	NP_001346644.1	XP_017211286.1	43.357	286	158	4	156	441
7870	NP_001346644.1	XP_017211286.1	38.291	316	180	7	118	424
7871	NP_001346644.1	XP_017211286.1	31.707	164	110	2	113	276
7872	NP_001346644.1	XP_005170428.2	44.444	315	173	2	292	606
7873	NP_001346644.1	XP_005170428.2	44.013	309	171	2	270	578
7874	NP_001346644.1	XP_005170428.2	45.788	273	146	2	340	612
7875	NP_001346644.1	XP_005170428.2	43.390	295	166	1	318	612
7876	NP_001346644.1	XP_005170428.2	38.438	320	193	4	147	466
7877	NP_001346644.1	XP_005170428.2	43.243	259	135	3	382	631
7878	NP_001346644.1	XP_005170428.2	37.671	292	179	3	115	406
7879	NP_001346644.1	XP_005170428.2	32.065	184	94	5	114	297
7880	NP_796332.2	XP_021331166.1	45.381	617	309	2	180	768
7881	NP_796332.2	XP_021331166.1	47.173	566	299	0	202	767
7882	NP_796332.2	XP_021331166.1	44.932	592	326	0	177	768
7883	NP_796332.2	XP_021331166.1	43.548	620	322	2	177	768
7884	NP_796332.2	XP_021331166.1	39.560	728	391	7	16	740
7885	NP_796332.2	XP_021331166.1	45.010	511	281	0	258	768
7886	NP_796332.2	XP_021331166.1	44.592	453	251	0	177	629
7887	NP_796332.2	XP_017209855.2	44.652	589	326	0	180	768
7888	NP_796332.2	XP_017209855.2	43.046	453	258	0	177	629
7889	NP_796332.2	XP_021331201.1	45.101	592	325	0	177	768
7890	NP_796332.2	XP_021331201.1	44.764	592	327	0	177	768
7891	NP_796332.2	XP_021331201.1	44.013	593	332	0	177	769
7892	NP_796332.2	XP_021331201.1	44.615	585	324	0	184	768
7893	NP_796332.2	XP_021331201.1	43.002	593	338	0	177	769
7894	NP_796332.2	XP_021331201.1	45.487	565	308	0	204	768
7895	NP_796332.2	XP_021331201.1	44.238	538	300	0	231	768

7896	NP_796332.2	XP_021331201.1	41.935	558	320	1	157	714
7897	NP_796332.2	XP_021331201.1	44.599	287	131	2	510	768
7898	NP_796332.2	XP_021331201.1	51.562	64	31	0	708	771
7899	NP_796332.2	XP_001923745.2	44.032	620	319	1	177	768
7900	NP_796332.2	XP_001923745.2	44.898	588	324	0	181	768
7901	NP_796332.2	XP_001923745.2	39.917	719	413	5	53	768
7902	NP_796332.2	XP_001923745.2	43.418	509	288	0	177	685
7903	NP_796332.2	XP_021326626.1	47.611	586	302	3	184	768
7904	NP_796332.2	XP_021326626.1	46.850	508	267	1	266	773
7905	NP_796332.2	XP_021326626.1	50.444	450	220	1	319	768
7906	NP_796332.2	XP_021326626.1	45.686	510	246	3	176	657
7907	NP_796332.2	XP_021326626.1	47.500	440	228	2	164	603
7908	NP_796332.2	XP_021326626.1	37.447	470	248	6	76	544
7909	NP_796332.2	XP_021328589.1	48.034	585	304	0	184	768
7910	NP_796332.2	XP_021328589.1	46.101	577	311	0	176	752
7911	NP_796332.2	XP_021328589.1	48.814	506	259	0	263	768
7912	NP_796332.2	XP_021328589.1	48.745	478	245	0	294	771
7913	NP_796332.2	XP_021328589.1	41.211	512	269	2	157	640
7914	NP_796332.2	XP_021328589.1	29.539	369	189	7	20	388
7915	NP_796332.2	XP_021327225.1	45.593	590	321	0	177	766
7916	NP_796332.2	XP_021327225.1	45.101	592	325	0	177	768
7917	NP_796332.2	XP_021327225.1	43.226	620	324	1	177	768
7918	NP_796332.2	XP_021327225.1	45.326	567	310	0	202	768
7919	NP_796332.2	XP_021327225.1	48.364	428	221	0	341	768
7920	NP_796332.2	XP_021331401.1	47.291	609	320	1	161	768
7921	NP_796332.2	XP_021331401.1	45.777	592	321	0	177	768
7922	NP_796332.2	XP_021331401.1	44.265	619	317	2	177	768
7923	NP_796332.2	XP_021331401.1	45.777	592	321	0	177	768
7924	NP_796332.2	XP_021331401.1	39.761	752	388	7	59	771
7925	NP_796332.2	XP_021331401.1	44.202	595	331	1	177	771
7926	NP_796332.2	XP_021331401.1	37.649	757	444	6	18	768
7927	NP_796332.2	XP_021331401.1	44.957	585	294	1	184	768
7928	NP_796332.2	XP_021331401.1	45.652	506	275	0	263	768
7929	NP_796332.2	XP_021331401.1	45.322	342	187	0	430	771
7930	NP_796332.2	XP_021331338.1	44.103	585	327	0	184	768
7931	NP_796332.2	XP_021331338.1	42.365	609	345	2	166	769
7932	NP_796332.2	XP_021331338.1	44.365	559	311	0	210	768
7933	NP_796332.2	XP_021331338.1	40.574	488	266	1	177	640
7934	NP_796332.2	XP_021331338.1	37.710	297	161	1	177	449
7935	NP_796332.2	XP_021331333.1	46.115	592	319	0	177	768
7936	NP_796332.2	XP_021331333.1	45.777	592	321	0	177	768
7937	NP_796332.2	XP_021331333.1	44.444	603	334	1	166	768
7938	NP_796332.2	XP_021331333.1	44.595	592	328	0	177	768

7939	NP_796332.2	XP_021331333.1	44.257	592	330	0	177	768
7940	NP_796332.2	XP_021331333.1	44.257	592	330	0	177	768
7941	NP_796332.2	XP_021331333.1	43.633	589	332	0	180	768
7942	NP_796332.2	XP_021331333.1	44.983	578	314	1	191	768
7943	NP_796332.2	XP_021331333.1	43.515	586	331	0	177	762
7944	NP_796332.2	XP_021331333.1	43.005	193	106	1	579	771
7945	NP_796332.2	XP_021331115.1	45.392	586	317	1	183	768
7946	NP_796332.2	XP_021331115.1	43.003	586	334	0	177	762
7947	NP_796332.2	XP_021331115.1	43.351	579	326	1	192	768
7948	NP_796332.2	XP_021331115.1	36.154	650	374	4	57	706
7949	NP_796332.2	XP_021331115.1	42.154	325	180	1	446	770
7950	NP_796332.2	XP_021331115.1	35.185	162	101	1	157	318
7951	NP_796332.2	XP_021331163.1	44.194	620	318	1	177	768
7952	NP_796332.2	XP_021331163.1	44.764	592	327	0	177	768
7953	NP_796332.2	XP_021331163.1	44.194	620	318	1	177	768
7954	NP_796332.2	XP_021331163.1	39.411	713	415	3	58	768
7955	NP_796332.2	XP_021331163.1	43.548	620	322	1	177	768
7956	NP_796332.2	XP_021331163.1	43.412	592	335	0	177	768
7957	NP_796332.2	XP_021331163.1	36.939	758	453	5	16	768
7958	NP_796332.2	XP_021331163.1	43.540	565	291	1	204	768
7959	NP_796332.2	XP_021331163.1	43.201	581	329	1	188	768
7960	NP_796332.2	XP_021331163.1	42.293	532	302	2	157	688
7961	NP_796332.2	XP_021331163.1	45.560	259	141	0	510	768
7962	NP_796332.2	XP_021331413.1	45.101	592	325	0	177	768
7963	NP_796332.2	XP_021331413.1	46.154	572	308	0	197	768
7964	NP_796332.2	XP_021331413.1	45.777	592	321	0	177	768
7965	NP_796332.2	XP_021331413.1	44.764	592	327	0	177	768
7966	NP_796332.2	XP_021331413.1	44.595	592	328	0	177	768
7967	NP_796332.2	XP_021331413.1	45.194	593	325	0	177	769
7968	NP_796332.2	XP_021331413.1	43.627	612	341	1	157	768
7969	NP_796332.2	XP_021331413.1	43.707	588	331	0	177	764
7970	NP_796332.2	XP_021331413.1	43.902	533	299	0	177	709
7971	NP_796332.2	XP_021331413.1	45.209	407	223	0	362	768
7972	NP_796332.2	XP_021331405.1	44.538	595	329	1	174	768
7973	NP_796332.2	XP_021331405.1	45.439	592	323	0	177	768
7974	NP_796332.2	XP_021331405.1	45.326	567	310	0	202	768
7975	NP_796332.2	XP_021331405.1	42.260	646	319	2	177	768
7976	NP_796332.2	XP_021331405.1	43.845	593	332	1	177	769
7977	NP_796332.2	XP_021331405.1	44.714	454	247	3	177	629
7978	NP_796332.2	XP_021331498.1	44.578	581	322	0	188	768
7979	NP_796332.2	XP_021331498.1	42.410	639	339	2	162	771
7980	NP_796332.2	XP_021331498.1	42.623	610	349	1	162	770
7981	NP_796332.2	XP_021331498.1	43.286	633	354	2	144	771

7982	NP_796332.2	XP_021331498.1	43.271	587	333	0	184	770
7983	NP_796332.2	XP_021331498.1	43.898	590	331	0	177	766
7984	NP_796332.2	XP_021331498.1	42.605	622	329	2	177	770
7985	NP_796332.2	XP_021331498.1	42.088	594	344	0	177	770
7986	NP_796332.2	XP_021331498.1	42.256	594	314	2	177	742
7987	NP_796332.2	XP_021331498.1	44.358	514	284	1	258	771
7988	NP_796332.2	XP_021331498.1	41.522	289	168	1	174	462
7989	NP_796332.2	XP_017211205.2	41.151	695	366	5	76	768
7990	NP_796332.2	XP_017211205.2	44.764	592	327	0	177	768
7991	NP_796332.2	XP_017211205.2	44.764	592	327	0	177	768
7992	NP_796332.2	XP_017211205.2	43.919	592	332	0	177	768
7993	NP_796332.2	XP_017211205.2	43.350	609	342	1	160	768
7994	NP_796332.2	XP_017211205.2	44.991	569	313	0	177	745
7995	NP_796332.2	XP_021330543.1	45.270	592	324	0	177	768
7996	NP_796332.2	XP_021330543.1	45.748	588	319	0	184	771
7997	NP_796332.2	XP_021330543.1	44.697	528	292	0	165	692
7998	NP_796332.2	XP_021328583.1	47.987	596	310	0	176	771
7999	NP_796332.2	XP_021328583.1	41.067	750	425	5	20	768
8000	NP_796332.2	XP_021328583.1	39.673	794	432	7	19	768
8001	NP_796332.2	XP_021328583.1	43.247	696	372	4	78	768
8002	NP_796332.2	XP_021328583.1	47.797	590	308	0	184	773
8003	NP_796332.2	XP_021328583.1	43.151	730	392	6	63	773
8004	NP_796332.2	XP_021328583.1	47.049	593	314	0	176	768
8005	NP_796332.2	XP_021328583.1	46.353	617	327	1	157	773
8006	NP_796332.2	XP_021328583.1	45.250	621	312	1	176	768
8007	NP_796332.2	XP_021328583.1	44.569	626	319	1	176	773
8008	NP_796332.2	XP_021328583.1	50.316	475	236	0	294	768
8009	NP_796332.2	XP_021328583.1	46.226	424	222	1	176	599
8010	NP_796332.2	XP_017208296.1	43.954	612	343	0	157	768
8011	NP_796332.2	XP_017208296.1	43.651	378	213	0	394	771
8012	NP_796332.2	XP_017208296.1	34.600	500	282	4	18	516
8013	NP_796332.2	XP_021331048.1	43.761	569	320	0	177	745
8014	NP_796332.2	XP_021331048.1	44.662	562	311	0	207	768
8015	NP_796332.2	XP_021331048.1	35.754	537	326	5	58	577
8016	NP_796332.2	XP_021331048.1	44.788	259	143	0	510	768
8017	NP_796332.2	XP_005157357.4	44.957	585	322	0	184	768
8018	NP_796332.2	XP_005157357.4	46.429	140	75	0	632	771
8019	NP_796332.2	XP_021326627.1	47.943	559	289	2	184	741
8020	NP_796332.2	XP_021326627.1	48.399	531	274	0	238	768
8021	NP_796332.2	XP_021326627.1	48.417	537	277	0	177	713
8022	NP_796332.2	XP_021326627.1	47.465	493	258	1	282	773
8023	NP_796332.2	XP_021326627.1	44.541	458	253	1	147	603
8024	NP_796332.2	XP_021326627.1	37.472	443	234	3	76	517

8025	NP_796332.2	XP_021331108.1	45.955	581	314	0	188	768
8026	NP_796332.2	XP_021331108.1	44.595	592	328	0	177	768
8027	NP_796332.2	XP_021331108.1	43.387	620	323	1	177	768
8028	NP_796332.2	XP_021331108.1	45.194	593	324	1	177	768
8029	NP_796332.2	XP_021331108.1	44.595	592	328	0	177	768
8030	NP_796332.2	XP_021331108.1	44.764	592	327	0	177	768
8031	NP_796332.2	XP_021331108.1	44.956	565	311	0	177	741
8032	NP_796332.2	XP_021331108.1	44.308	571	317	1	202	771
8033	NP_796332.2	XP_021331108.1	43.333	510	289	0	177	686
8034	NP_796332.2	XP_021331108.1	40.000	65	39	0	177	241
8035	NP_796332.2	XP_021331276.1	44.881	586	320	1	183	768
8036	NP_796332.2	XP_021331276.1	39.301	715	407	5	57	764
8037	NP_796332.2	XP_021331276.1	44.940	583	321	0	184	766
8038	NP_796332.2	XP_021331276.1	43.434	594	336	0	177	770
8039	NP_796332.2	XP_021331276.1	43.772	578	325	0	191	768
8040	NP_796332.2	XP_021331276.1	39.189	592	359	1	119	709
8041	NP_796332.2	XP_021331276.1	46.081	421	227	0	350	770
8042	NP_796332.2	XP_021331276.1	43.478	368	208	0	177	544
8043	NP_796332.2	XP_021331276.1	38.017	242	148	1	529	770
8044	NP_796332.2	XP_021331266.1	45.777	592	321	0	177	768
8045	NP_796332.2	XP_021331266.1	45.608	592	322	0	177	768
8046	NP_796332.2	XP_021331266.1	46.050	595	321	0	177	771
8047	NP_796332.2	XP_021331266.1	45.608	592	322	0	177	768
8048	NP_796332.2	XP_021331266.1	43.103	638	358	2	131	768
8049	NP_796332.2	XP_021331266.1	45.172	611	331	2	157	767
8050	NP_796332.2	XP_021331266.1	45.546	595	324	0	177	771
8051	NP_796332.2	XP_021331266.1	46.296	594	319	0	175	768
8052	NP_796332.2	XP_021331266.1	45.777	592	321	0	177	768
8053	NP_796332.2	XP_021331266.1	45.455	594	324	0	175	768
8054	NP_796332.2	XP_021331266.1	45.946	592	320	0	177	768
8055	NP_796332.2	XP_021331266.1	45.608	592	322	0	177	768
8056	NP_796332.2	XP_021331266.1	44.764	592	327	0	177	768
8057	NP_796332.2	XP_021331266.1	44.786	585	323	0	184	768
8058	NP_796332.2	XP_021331266.1	44.257	592	330	0	177	768
8059	NP_796332.2	XP_021331266.1	44.426	592	329	0	177	768
8060	NP_796332.2	XP_021331266.1	44.764	592	327	0	177	768
8061	NP_796332.2	XP_021331266.1	44.932	592	326	0	177	768
8062	NP_796332.2	XP_021331266.1	43.581	592	334	0	177	768
8063	NP_796332.2	XP_021331266.1	44.178	584	326	0	185	768
8064	NP_796332.2	XP_021331266.1	44.051	622	347	1	148	768
8065	NP_796332.2	XP_021331266.1	44.764	592	327	0	177	768
8066	NP_796332.2	XP_021331266.1	44.088	592	331	0	177	768
8067	NP_796332.2	XP_021331266.1	44.764	592	327	0	177	768

8068	NP_796332.2	XP_021331266.1	43.463	589	333	0	180	768
8069	NP_796332.2	XP_021331266.1	43.919	592	332	0	177	768
8070	NP_796332.2	XP_021331266.1	43.750	592	333	0	177	768
8071	NP_796332.2	XP_021331266.1	43.866	595	334	0	177	771
8072	NP_796332.2	XP_021331266.1	43.824	591	332	0	177	767
8073	NP_796332.2	XP_021331266.1	43.919	592	332	0	177	768
8074	NP_796332.2	XP_021331266.1	43.412	592	335	0	177	768
8075	NP_796332.2	XP_021331266.1	42.905	592	338	0	177	768
8076	NP_796332.2	XP_021331266.1	44.088	592	331	0	177	768
8077	NP_796332.2	XP_021331266.1	43.084	629	353	2	145	768
8078	NP_796332.2	XP_021331266.1	41.892	592	344	0	177	768
8079	NP_796332.2	XP_021331266.1	42.736	592	339	0	177	768
8080	NP_796332.2	XP_021331266.1	43.762	537	302	0	177	713
8081	NP_796332.2	XP_021331266.1	41.870	246	143	0	526	771
8082	NP_796332.2	XP_021330828.1	45.439	592	323	0	177	768
8083	NP_796332.2	XP_021330828.1	44.932	592	326	0	177	768
8084	NP_796332.2	XP_021330828.1	45.034	584	321	0	185	768
8085	NP_796332.2	XP_021330828.1	35.062	405	222	3	58	462
8086	NP_796332.2	XP_021331211.1	44.764	592	327	0	177	768
8087	NP_796332.2	XP_021331211.1	44.863	584	322	0	177	760
8088	NP_796332.2	XP_021331211.1	37.821	780	444	6	16	768
8089	NP_796332.2	XP_021331211.1	44.406	581	323	0	188	768
8090	NP_796332.2	XP_021331211.1	43.594	601	336	1	168	768
8091	NP_796332.2	XP_021331211.1	43.581	592	334	0	177	768
8092	NP_796332.2	XP_021331407.1	42.788	617	327	3	178	768
8093	NP_796332.2	XP_021331407.1	40.402	646	331	4	177	768
8094	NP_796332.2	XP_021331407.1	40.523	612	335	3	183	768
8095	NP_796332.2	XP_021331407.1	44.664	506	277	1	266	768
8096	NP_796332.2	XP_021331407.1	41.964	560	299	3	235	768
8097	NP_796332.2	XP_021331407.1	43.067	476	248	1	177	629
8098	NP_796332.2	XP_021331407.1	40.523	459	234	2	341	768
8099	NP_796332.2	XP_021331407.1	41.935	217	126	0	554	770
8100	NP_796332.2	XP_021331164.1	44.088	592	331	0	177	768
8101	NP_796332.2	XP_021331164.1	45.150	567	311	0	202	768
8102	NP_796332.2	XP_021331164.1	43.750	592	333	0	177	768
8103	NP_796332.2	XP_021331164.1	37.419	767	437	7	16	768
8104	NP_796332.2	XP_021331164.1	42.954	589	336	0	180	768
8105	NP_796332.2	XP_021331164.1	41.254	606	348	3	116	716
8106	NP_796332.2	XP_017211047.2	44.426	592	329	0	177	768
8107	NP_796332.2	XP_017211047.2	44.595	592	328	0	177	768
8108	NP_796332.2	XP_017211047.2	42.647	612	347	1	157	768
8109	NP_796332.2	XP_017211047.2	42.905	592	338	0	177	768
8110	NP_796332.2	XP_017211047.2	41.914	606	347	2	145	745

8111	NP_796332.2	XP_017211047.2	44.981	538	296	0	231	768
8112	NP_796332.2	XP_017211047.2	38.880	661	359	4	58	716
8113	NP_796332.2	XP_021331104.1	43.954	612	339	1	157	768
8114	NP_796332.2	XP_021331104.1	44.728	588	325	0	177	764
8115	NP_796332.2	XP_021331104.1	44.538	595	330	0	177	771
8116	NP_796332.2	XP_021331104.1	44.983	598	325	2	177	770
8117	NP_796332.2	XP_021331104.1	42.812	626	327	2	177	771
8118	NP_796332.2	XP_021331104.1	45.982	448	241	1	322	768
8119	NP_796332.2	XP_021331104.1	45.882	340	183	1	430	768
8120	NP_796332.2	XP_021331033.1	43.429	624	321	2	177	768
8121	NP_796332.2	XP_021331033.1	43.456	596	333	2	177	768
8122	NP_796332.2	XP_021331033.1	43.792	596	331	2	177	768
8123	NP_796332.2	XP_021331033.1	44.154	573	316	2	200	768
8124	NP_796332.2	XP_021331033.1	43.333	570	293	1	177	716
8125	NP_796332.2	XP_021331033.1	45.102	490	267	1	284	771
8126	NP_796332.2	XP_021331033.1	43.301	515	290	1	177	689
8127	NP_796332.2	XP_021331199.1	45.791	594	322	0	175	768
8128	NP_796332.2	XP_021331199.1	44.932	592	326	0	177	768
8129	NP_796332.2	XP_021331199.1	37.875	800	394	11	58	771
8130	NP_796332.2	XP_021331199.1	42.195	647	318	3	177	768
8131	NP_796332.2	XP_021331199.1	44.088	592	331	0	177	768
8132	NP_796332.2	XP_021331199.1	43.919	592	332	0	177	768
8133	NP_796332.2	XP_021331199.1	44.519	593	328	1	177	769
8134	NP_796332.2	XP_021331199.1	43.339	593	280	3	204	768
8135	NP_796332.2	XP_021331199.1	42.739	482	244	4	177	629
8136	NP_796332.2	XP_021331199.1	43.672	403	216	4	148	545
8137	NP_796332.2	XP_021331199.1	45.560	259	141	0	510	768
8138	NP_796332.2	XP_021331110.1	44.932	592	326	0	177	768
8139	NP_796332.2	XP_021331110.1	43.412	592	335	0	177	768
8140	NP_796332.2	XP_021331110.1	42.258	620	330	1	177	768
8141	NP_796332.2	XP_021331110.1	42.832	565	323	0	177	741
8142	NP_796332.2	XP_021331110.1	41.056	587	290	2	210	768
8143	NP_796332.2	XP_021327003.1	44.781	594	328	0	175	768
8144	NP_796332.2	XP_021327003.1	44.764	592	327	0	177	768
8145	NP_796332.2	XP_021327003.1	43.137	612	344	1	157	768
8146	NP_796332.2	XP_021327003.1	44.279	603	335	1	166	768
8147	NP_796332.2	XP_021327003.1	44.957	585	322	0	184	768
8148	NP_796332.2	XP_021327003.1	44.257	592	330	0	177	768
8149	NP_796332.2	XP_021327003.1	44.088	592	331	0	177	768
8150	NP_796332.2	XP_021327003.1	43.381	627	352	2	145	768
8151	NP_796332.2	XP_021327003.1	43.750	592	333	0	177	768
8152	NP_796332.2	XP_021327003.1	37.270	762	441	6	18	768
8153	NP_796332.2	XP_021327003.1	43.074	592	337	0	177	768

8154	NP_796332.2	XP_021327003.1	43.581	592	334	0	177	768
8155	NP_796332.2	XP_021327003.1	42.905	592	338	0	177	768
8156	NP_796332.2	XP_021327003.1	39.106	716	411	5	59	768
8157	NP_796332.2	XP_021327003.1	42.527	562	323	0	207	768
8158	NP_796332.2	XP_021327003.1	42.885	513	293	0	177	689
8159	NP_796332.2	XP_021330542.1	44.781	594	328	0	175	768
8160	NP_796332.2	XP_021330542.1	44.764	592	327	0	177	768
8161	NP_796332.2	XP_021330542.1	43.137	612	344	1	157	768
8162	NP_796332.2	XP_021330542.1	44.279	603	335	1	166	768
8163	NP_796332.2	XP_021330542.1	44.957	585	322	0	184	768
8164	NP_796332.2	XP_021330542.1	44.257	592	330	0	177	768
8165	NP_796332.2	XP_021330542.1	44.088	592	331	0	177	768
8166	NP_796332.2	XP_021330542.1	43.381	627	352	2	145	768
8167	NP_796332.2	XP_021330542.1	43.750	592	333	0	177	768
8168	NP_796332.2	XP_021330542.1	37.270	762	441	6	18	768
8169	NP_796332.2	XP_021330542.1	43.074	592	337	0	177	768
8170	NP_796332.2	XP_021330542.1	43.581	592	334	0	177	768
8171	NP_796332.2	XP_021330542.1	42.905	592	338	0	177	768
8172	NP_796332.2	XP_021330542.1	39.106	716	411	5	59	768
8173	NP_796332.2	XP_021330542.1	42.527	562	323	0	207	768
8174	NP_796332.2	XP_021330542.1	42.885	513	293	0	177	689
8175	NP_796332.2	XP_021331106.1	44.257	592	330	0	177	768
8176	NP_796332.2	XP_021331106.1	44.538	595	330	0	177	771
8177	NP_796332.2	XP_021331106.1	43.739	567	319	0	202	768
8178	NP_796332.2	XP_021331106.1	42.905	592	338	0	177	768
8179	NP_796332.2	XP_021331106.1	40.028	712	412	3	58	768
8180	NP_796332.2	XP_021331106.1	41.463	656	349	2	148	768
8181	NP_796332.2	XP_021331106.1	43.062	627	323	2	177	769
8182	NP_796332.2	XP_021331106.1	43.074	592	337	0	180	771
8183	NP_796332.2	XP_021331198.1	44.776	603	332	1	166	768
8184	NP_796332.2	XP_021331198.1	44.781	594	328	0	175	768
8185	NP_796332.2	XP_021331198.1	44.595	592	328	0	177	768
8186	NP_796332.2	XP_021331198.1	43.581	592	334	0	177	768
8187	NP_796332.2	XP_021331198.1	43.478	598	335	1	168	765
8188	NP_796332.2	XP_021331198.1	43.581	592	334	0	177	768
8189	NP_796332.2	XP_021331198.1	43.919	592	332	0	177	768
8190	NP_796332.2	XP_021331198.1	43.649	559	315	0	210	768
8191	NP_796332.2	XP_021331198.1	42.546	597	343	0	175	771
8192	NP_796332.2	XP_021331198.1	45.652	506	275	0	263	768
8193	NP_796332.2	XP_021331198.1	45.929	479	259	0	290	768
8194	NP_796332.2	XP_021331198.1	45.939	394	213	0	378	771
8195	NP_796332.2	XP_021331195.1	40.393	713	408	3	58	768
8196	NP_796332.2	XP_021331195.1	44.171	609	339	1	161	768

8197	NP_796332.2	XP_021331195.1	44.932	592	326	0	177	768
8198	NP_796332.2	XP_021331195.1	45.025	593	326	0	177	769
8199	NP_796332.2	XP_021331195.1	43.730	622	320	1	177	768
8200	NP_796332.2	XP_021331195.1	44.276	594	329	1	180	771
8201	NP_796332.2	XP_021331195.1	43.412	592	335	0	177	768
8202	NP_796332.2	XP_021331195.1	43.412	592	335	0	177	768
8203	NP_796332.2	XP_021331195.1	42.602	615	323	1	184	768
8204	NP_796332.2	XP_021331195.1	43.002	593	334	1	177	769
8205	NP_796332.2	XP_021331195.1	45.455	506	276	0	263	768
8206	NP_796332.2	XP_021331195.1	46.018	339	183	0	430	768
8207	NP_796332.2	NP_001107936.1	45.987	598	323	0	176	773
8208	NP_796332.2	NP_001107936.1	43.125	640	332	3	157	768
8209	NP_796332.2	NP_001107936.1	47.331	562	296	0	210	771
8210	NP_796332.2	NP_001107936.1	47.348	509	268	0	263	771
8211	NP_796332.2	NP_001107936.1	48.750	480	246	0	294	773
8212	NP_796332.2	NP_001107936.1	44.784	393	217	0	176	568
8213	NP_796332.2	XP_017211215.2	45.270	592	324	0	177	768
8214	NP_796332.2	XP_017211215.2	43.710	620	321	2	177	768
8215	NP_796332.2	XP_017211215.2	44.595	592	328	0	177	768
8216	NP_796332.2	XP_017211215.2	46.397	569	303	1	202	768
8217	NP_796332.2	XP_017211215.2	44.108	594	330	1	177	768
8218	NP_796332.2	XP_017211215.2	43.074	592	337	0	177	768
8219	NP_796332.2	XP_017211215.2	42.605	453	260	0	177	629
8220	NP_796332.2	XP_021329622.1	43.781	603	338	1	166	768
8221	NP_796332.2	XP_021329622.1	42.742	620	327	1	177	768
8222	NP_796332.2	XP_021329622.1	43.062	627	354	2	145	768
8223	NP_796332.2	XP_021329622.1	43.074	592	337	0	177	768
8224	NP_796332.2	XP_021329622.1	42.061	592	343	0	177	768
8225	NP_796332.2	XP_021329622.1	41.596	589	344	0	180	768
8226	NP_796332.2	XP_021329622.1	42.349	562	324	0	207	768
8227	NP_796332.2	XP_021329622.1	42.632	570	327	0	177	746
8228	NP_796332.2	XP_021329622.1	42.697	534	278	1	237	770
8229	NP_796332.2	XP_021329622.1	44.575	341	189	0	430	770
8230	NP_796332.2	XP_021329622.1	53.125	32	15	0	737	768
8231	NP_796332.2	XP_021331376.1	43.919	592	332	0	177	768
8232	NP_796332.2	XP_021331376.1	43.434	594	336	0	175	768
8233	NP_796332.2	XP_021331376.1	42.568	592	340	0	177	768
8234	NP_796332.2	XP_021331376.1	44.162	591	324	2	180	767
8235	NP_796332.2	XP_021331376.1	43.074	592	337	0	177	768
8236	NP_796332.2	XP_021331376.1	42.230	592	342	0	177	768
8237	NP_796332.2	XP_021331376.1	41.723	592	317	1	177	768
8238	NP_796332.2	XP_021331376.1	42.005	369	214	0	177	545
8239	NP_796332.2	XP_021331376.1	48.000	175	91	0	594	768

8240	NP_796332.2	XP_021330576.1	46.453	592	317	0	177	768
8241	NP_796332.2	XP_021330576.1	44.108	628	341	2	151	768
8242	NP_796332.2	XP_021330576.1	45.101	592	325	0	177	768
8243	NP_796332.2	XP_021330576.1	45.439	592	323	0	177	768
8244	NP_796332.2	XP_021330576.1	44.538	595	330	0	177	771
8245	NP_796332.2	XP_021330576.1	43.464	612	342	1	157	768
8246	NP_796332.2	XP_021330576.1	43.750	592	333	0	177	768
8247	NP_796332.2	XP_021330576.1	43.025	595	339	0	177	771
8248	NP_796332.2	XP_021330576.1	42.857	623	328	3	177	771
8249	NP_796332.2	XP_021330576.1	43.581	592	334	0	177	768
8250	NP_796332.2	XP_021330576.1	41.762	613	328	2	184	768
8251	NP_796332.2	XP_021330576.1	41.252	623	337	2	177	771
8252	NP_796332.2	XP_021330576.1	45.035	564	310	0	177	740
8253	NP_796332.2	XP_021330576.1	42.105	570	329	1	199	768
8254	NP_796332.2	XP_021330576.1	42.945	489	273	3	285	768
8255	NP_796332.2	XP_021330576.1	42.620	481	248	1	177	629
8256	NP_796332.2	XP_003198540.5	45.270	592	324	0	177	768
8257	NP_796332.2	XP_003198540.5	45.270	592	324	0	177	768
8258	NP_796332.2	XP_003198540.5	44.426	592	329	0	177	768
8259	NP_796332.2	XP_003198540.5	44.957	585	322	0	184	768
8260	NP_796332.2	XP_003198540.5	43.019	616	343	2	157	768
8261	NP_796332.2	XP_003198540.5	43.508	593	331	2	180	768
8262	NP_796332.2	XP_003198540.5	44.522	575	319	0	177	751
8263	NP_796332.2	XP_003198540.5	42.451	563	316	2	210	768
8264	NP_796332.2	XP_003198540.5	44.016	493	276	0	177	669
8265	NP_796332.2	XP_003198540.5	43.562	466	263	0	177	642
8266	NP_796332.2	XP_003198540.5	40.083	484	226	4	341	768
8267	NP_796332.2	XP_003198540.5	42.353	170	94	1	602	771
8268	NP_796332.2	XP_021331200.1	41.488	699	394	4	72	768
8269	NP_796332.2	XP_021331200.1	45.704	582	314	1	189	768
8270	NP_796332.2	XP_021331200.1	44.781	594	326	1	177	768
8271	NP_796332.2	XP_021331200.1	44.051	622	318	2	177	768
8272	NP_796332.2	XP_021331200.1	44.444	594	328	1	177	768
8273	NP_796332.2	XP_021331200.1	39.458	664	381	5	58	716
8274	NP_796332.2	XP_021331200.1	42.300	487	279	1	177	661
8275	NP_796332.2	XP_021331200.1	43.260	319	181	0	175	493
8276	NP_796332.2	XP_021331200.1	45.882	170	92	0	602	771
8277	NP_796332.2	XP_021330858.1	44.786	585	323	0	184	768
8278	NP_796332.2	XP_021330858.1	44.521	584	324	0	177	760
8279	NP_796332.2	XP_021330858.1	43.860	570	320	0	199	768
8280	NP_796332.2	XP_021330858.1	36.959	763	408	6	78	767
8281	NP_796332.2	XP_021330858.1	41.158	622	336	3	177	768
8282	NP_796332.2	XP_021330858.1	40.491	652	330	3	175	768

8283	NP_796332.2	XP_021330858.1	37.446	462	273	3	177	629
8284	NP_796332.2	XP_021330858.1	43.034	323	175	1	446	768
8285	NP_796332.2	XP_021331332.1	44.444	585	325	0	184	768
8286	NP_796332.2	XP_021331332.1	44.426	592	328	1	177	768
8287	NP_796332.2	XP_021331332.1	40.141	710	408	5	76	768
8288	NP_796332.2	XP_021331332.1	44.103	585	327	0	184	768
8289	NP_796332.2	XP_021331332.1	44.932	592	326	0	177	768
8290	NP_796332.2	XP_021331332.1	44.389	597	331	1	175	771
8291	NP_796332.2	XP_021331332.1	44.407	590	327	1	177	766
8292	NP_796332.2	XP_021331332.1	44.202	595	332	0	177	771
8293	NP_796332.2	XP_021331332.1	43.750	592	333	0	177	768
8294	NP_796332.2	XP_021331332.1	43.750	592	333	0	177	768
8295	NP_796332.2	XP_021331332.1	43.973	589	330	0	180	768
8296	NP_796332.2	XP_021331332.1	42.905	592	338	0	177	768
8297	NP_796332.2	XP_021331332.1	43.581	592	334	0	177	768
8298	NP_796332.2	XP_021331332.1	43.412	592	335	0	177	768
8299	NP_796332.2	XP_021331332.1	43.563	567	320	0	202	768
8300	NP_796332.2	XP_021331332.1	44.259	540	300	1	177	716
8301	NP_796332.2	XP_021331332.1	43.665	513	288	1	177	689
8302	NP_796332.2	XP_021331169.1	44.932	592	326	0	177	768
8303	NP_796332.2	XP_021331169.1	43.919	592	332	0	177	768
8304	NP_796332.2	XP_021331169.1	44.071	506	283	0	180	685
8305	NP_796332.2	XP_021331169.1	44.075	481	269	0	177	657
8306	NP_796332.2	XP_021331169.1	45.110	317	174	0	455	771
8307	NP_796332.2	XP_021331169.1	46.154	260	140	0	509	768
8308	NP_796332.2	XP_021331302.1	44.464	560	311	0	209	768
8309	NP_796332.2	XP_021331302.1	43.590	585	330	0	184	768
8310	NP_796332.2	XP_021331302.1	43.540	565	319	0	177	741
8311	NP_796332.2	XP_021331127.1	44.621	567	314	0	202	768
8312	NP_796332.2	XP_021331127.1	43.860	570	320	0	177	746
8313	NP_796332.2	XP_021331127.1	34.483	464	287	6	18	466
8314	NP_796332.2	XP_021331127.1	37.762	143	85	1	157	299
8315	NP_796332.2	XP_021331448.1	45.455	539	294	0	230	768
8316	NP_796332.2	XP_021331448.1	44.301	544	303	0	202	745
8317	NP_796332.2	XP_021331448.1	43.889	540	303	0	177	716
8318	NP_796332.2	XP_021331448.1	43.725	510	287	0	180	689
8319	NP_796332.2	XP_021331448.1	44.124	485	271	0	177	661
8320	NP_796332.2	XP_021331448.1	44.750	400	221	0	370	769
8321	NP_796332.2	XP_021331448.1	22.467	227	127	6	18	241
8322	NP_796332.2	XP_021330715.1	43.810	630	349	2	144	768
8323	NP_796332.2	XP_021330715.1	45.623	594	323	0	177	770
8324	NP_796332.2	XP_021330715.1	44.595	592	328	0	177	768
8325	NP_796332.2	XP_021330715.1	43.697	595	335	0	177	771

8326	NP_796332.2	XP_021330715.1	45.777	592	321	0	177	768
8327	NP_796332.2	XP_021330715.1	45.439	592	323	0	177	768
8328	NP_796332.2	XP_021330715.1	43.506	616	343	2	156	771
8329	NP_796332.2	XP_021330715.1	43.464	612	341	2	157	768
8330	NP_796332.2	XP_021330715.1	44.276	594	330	1	177	770
8331	NP_796332.2	XP_021330715.1	44.426	592	329	0	177	768
8332	NP_796332.2	XP_021330715.1	43.412	592	335	0	177	768
8333	NP_796332.2	XP_021330715.1	44.257	592	330	0	177	768
	sstart	send	evalue	bitscore				
1	10	322	1.24e-150	426.0				
2	1	344	8.62e-92	279.0				
3	231	393	5.14e-06	49.7				
4	200	296	1.00e-01	35.8				
5	1	514	0.00e+00	877.0				
6	16	78	6.70e+00	29.3				
7	48	110	7.50e+00	29.6				
8	1	227	2.97e-127	360.0				
9	261	326	1.80e+00	31.2				
10	261	326	1.90e+00	31.2				
11	163	228	2.10e+00	30.8				
12	2588	2645	8.00e-02	31.2				
13	2278	2335	8.30e-02	31.2				
14	42	69	1.00e+00	28.1				
15	167	195	7.70e+00	25.4				
16	167	195	8.00e+00	25.4				
17	1	226	2.18e-65	202.0				
18	1	261	3.61e-146	410.0				
19	37	73	1.60e+00	31.6				
20	37	73	1.70e+00	31.6				
21	675	706	8.40e+00	29.3				
22	1	116	2.53e-43	138.0				
23	1	98	5.73e-29	100.0				
24	136	154	6.50e+00	26.9				
25	149	167	6.70e+00	26.9				
26	65	115	1.00e+01	26.6				
27	1	457	0.00e+00	572.0				
28	128	323	1.32e-05	48.9				
29	97	195	1.30e+00	32.7				
30	148	238	7.30e+00	30.8				
31	9	597	0.00e+00	617.0				
32	84	425	1.51e-09	62.0				
33	105	303	1.17e-06	52.4				
34	129	190	1.90e+00	33.1				

35	142	203	2.40e+00	32.7
36	379	437	4.20e+00	32.0
37	1107	1154	8.40e+00	31.2
38	1	137	2.34e-20	84.0
39	306	389	5.40e+00	28.9
40	1	378	0.00e+00	588.0
41	263	368	4.80e+00	30.8
42	263	368	4.80e+00	30.8
43	310	415	5.60e+00	30.4
44	310	415	5.60e+00	30.4
45	10	322	1.24e-150	426.0
46	1	344	8.62e-92	279.0
47	231	393	5.14e-06	49.7
48	200	296	1.00e-01	35.8
49	1	514	0.00e+00	877.0
50	16	78	6.70e+00	29.3
51	48	110	7.50e+00	29.6
52	1	227	2.97e-127	360.0
53	261	326	1.80e+00	31.2
54	261	326	1.90e+00	31.2
55	163	228	2.10e+00	30.8
56	2588	2645	8.00e-02	31.2
57	2278	2335	8.30e-02	31.2
58	42	69	1.00e+00	28.1
59	167	195	7.70e+00	25.4
60	167	195	8.00e+00	25.4
61	1	226	2.18e-65	202.0
62	1	261	3.61e-146	410.0
63	37	73	1.60e+00	31.6
64	37	73	1.70e+00	31.6
65	675	706	8.40e+00	29.3
66	1	116	2.53e-43	138.0
67	1	98	5.73e-29	100.0
68	136	154	6.50e+00	26.9
69	149	167	6.70e+00	26.9
70	65	115	1.00e+01	26.6
71	1	457	0.00e+00	572.0
72	128	323	1.32e-05	48.9
73	97	195	1.30e+00	32.7
74	148	238	7.30e+00	30.8
75	9	597	0.00e+00	617.0
76	84	425	1.51e-09	62.0
77	105	303	1.17e-06	52.4

78	129	190	1.90e+00	33.1
79	142	203	2.40e+00	32.7
80	379	437	4.20e+00	32.0
81	1107	1154	8.40e+00	31.2
82	1	137	2.34e-20	84.0
83	306	389	5.40e+00	28.9
84	1	378	0.00e+00	588.0
85	263	368	4.80e+00	30.8
86	263	368	4.80e+00	30.8
87	310	415	5.60e+00	30.4
88	310	415	5.60e+00	30.4
89	420	684	1.69e-63	214.0
90	476	740	4.51e-63	214.0
91	475	739	4.69e-63	214.0
92	338	459	5.19e-12	67.8
93	344	465	2.66e-11	65.5
94	43	103	4.40e-01	33.9
95	527	616	1.70e-10	63.2
96	179	265	4.00e-03	40.0
97	63	151	5.00e-03	40.0
98	339	460	2.28e-09	59.7
99	27	98	8.80e+00	29.6
100	343	478	1.65e-06	50.8
101	10	108	4.00e-03	40.0
102	371	495	4.04e-05	46.6
103	76	165	1.44e-04	44.7
104	12	157	1.00e-03	41.2
105	388	490	1.80e-02	38.5
106	88	196	2.10e-02	37.7
107	221	297	2.20e+00	31.2
108	164	272	2.40e-02	37.7
109	297	373	4.70e+00	30.4
110	40	108	2.70e-02	37.4
111	162	243	2.50e-01	34.3
112	181	241	7.20e-02	36.2
113	408	500	8.90e-02	35.8
114	286	366	2.50e-01	34.7
115	32	118	1.50e-01	35.0
116	136	192	2.70e-01	34.3
117	80	136	2.80e-01	33.5
118	28	120	3.70e-01	33.9
119	146	248	3.90e-01	33.9
120	40	124	4.80e-01	33.5

121	59	193	9.90e-01	32.7
122	1139	1207	1.30e+00	32.7
123	26	113	1.30e+00	32.3
124	2379	2450	1.60e+00	32.3
125	2367	2438	1.60e+00	32.3
126	2414	2485	1.60e+00	32.3
127	2374	2445	1.60e+00	32.3
128	69	132	1.70e+00	32.0
129	2414	2485	1.70e+00	32.3
130	2414	2485	1.70e+00	32.3
131	2342	2413	1.80e+00	32.0
132	2342	2413	1.80e+00	32.0
133	1398	1467	2.00e+00	32.0
134	14	135	2.40e+00	31.6
135	14	135	2.40e+00	31.6
136	14	135	2.60e+00	31.2
137	14	135	2.60e+00	31.2
138	14	135	2.70e+00	31.2
139	952	1016	3.30e+00	31.2
140	279	370	4.00e+00	30.4
141	119	245	9.00e+00	29.6
142	255	281	9.50e+00	29.6
143	255	281	9.80e+00	29.6
144	50	433	1.74e-11	67.4
145	383	509	2.27e-09	60.8
146	414	533	5.00e-03	40.8
147	2113	2218	9.00e-03	40.0
148	1031	1152	6.20e-02	37.4
149	1089	1210	6.80e-02	37.0
150	1263	1384	7.10e-02	37.0
151	910	1103	9.00e-01	33.5
152	857	961	3.30e-01	35.0
153	2023	2120	4.60e-01	34.7
154	1140	1221	6.70e+00	30.8
155	174	284	5.20e-01	34.3
156	216	326	5.50e-01	33.9
157	275	385	5.90e-01	33.9
158	882	996	6.70e-01	33.9
159	98	196	7.70e-01	33.5
160	350	448	8.40e-01	33.5
161	189	287	8.60e-01	33.5
162	899	1019	9.40e-01	33.5
163	782	908	1.00e+00	33.5

164	665	791	1.00e+00	33.1
165	681	761	1.00e+00	33.5
166	723	849	1.00e+00	33.1
167	345	443	1.10e+00	33.1
168	350	448	1.20e+00	33.1
169	1049	1157	4.00e+00	31.6
170	337	545	6.80e+00	30.4
171	1488	1621	7.00e+00	30.8
172	1486	1619	7.10e+00	30.8
173	2006	2139	7.40e+00	30.8
174	2121	2254	7.50e+00	30.4
175	1430	1563	7.80e+00	30.4
176	2183	2316	7.80e+00	30.4
177	2236	2369	7.90e+00	30.4
178	967	1088	8.00e+00	30.4
179	967	1088	8.00e+00	30.4
180	967	1088	8.00e+00	30.4
181	2409	2542	8.10e+00	30.4
182	2351	2484	8.20e+00	30.4
183	1486	1619	8.30e+00	30.4
184	2351	2484	8.30e+00	30.4
185	2354	2487	8.40e+00	30.4
186	2354	2487	8.70e+00	30.4
187	2236	2369	8.80e+00	30.4
188	2582	2715	8.80e+00	30.4
189	23	284	3.47e-103	309.0
190	79	340	3.19e-99	299.0
191	53	308	1.44e-96	292.0
192	107	360	4.94e-95	288.0
193	2	252	1.52e-92	281.0
194	163	362	2.26e-71	227.0
195	1	84	1.33e-19	90.1
196	95	352	8.58e-103	310.0
197	159	434	1.48e-94	289.0
198	39	312	5.92e-93	285.0
199	2	268	2.26e-92	283.0
200	134	409	6.64e-90	277.0
201	67	324	9.16e-89	274.0
202	235	435	6.98e-66	215.0
203	13	76	1.15e-13	72.8
204	33	336	1.00e-102	313.0
205	116	392	9.53e-101	308.0
206	144	401	2.44e-100	306.0

207	32	289	2.79e-99	304.0
208	88	345	2.01e-98	301.0
209	172	429	3.24e-98	301.0
210	4	261	6.11e-96	295.0
211	228	486	3.68e-90	280.0
212	256	511	1.09e-88	276.0
213	3	233	2.72e-86	270.0
214	2	205	1.31e-69	227.0
215	1	65	1.25e-15	79.3
216	145	403	1.98e-102	309.0
217	89	365	1.75e-99	301.0
218	61	318	9.47e-99	300.0
219	5	262	1.14e-98	300.0
220	6	309	1.60e-97	296.0
221	1	250	2.68e-87	270.0
222	257	419	1.15e-50	175.0
223	313	421	1.49e-28	116.0
224	193	462	1.01e-101	309.0
225	145	403	2.13e-98	301.0
226	13	290	5.90e-96	295.0
227	61	318	2.82e-95	293.0
228	117	374	3.11e-93	288.0
229	5	262	1.67e-92	286.0
230	1	234	4.30e-86	269.0
231	257	487	3.99e-81	256.0
232	134	395	1.94e-101	309.0
233	78	336	3.83e-97	298.0
234	22	279	2.37e-96	296.0
235	218	474	2.89e-95	293.0
236	190	447	1.03e-91	284.0
237	1	251	2.75e-88	275.0
238	246	499	6.85e-87	271.0
239	193	462	2.54e-101	308.0
240	145	403	2.56e-98	300.0
241	13	290	7.17e-96	294.0
242	61	318	3.39e-95	293.0
243	117	374	3.74e-93	287.0
244	5	262	2.01e-92	285.0
245	1	234	4.95e-86	269.0
246	257	487	5.15e-82	259.0
247	23	280	3.12e-101	304.0
248	107	368	7.03e-101	303.0
249	79	352	4.38e-97	294.0

250	2	252	2.61e-92	281.0
251	163	377	2.76e-76	240.0
252	1	140	5.96e-50	172.0
253	61	322	1.95e-100	303.0
254	5	263	2.27e-100	303.0
255	145	402	2.23e-98	298.0
256	117	374	1.19e-91	281.0
257	1	234	3.18e-86	267.0
258	229	403	1.10e-57	193.0
259	9	272	3.15e-100	303.0
260	73	330	3.16e-98	298.0
261	89	353	1.63e-91	281.0
262	157	412	1.52e-88	273.0
263	1	244	3.26e-88	272.0
264	117	387	9.11e-88	271.0
265	213	413	1.34e-62	206.0
266	1	162	3.43e-52	179.0
267	5	266	4.48e-100	307.0
268	145	402	2.47e-96	297.0
269	91	347	8.89e-96	296.0
270	173	430	1.75e-95	295.0
271	117	374	2.06e-95	295.0
272	229	486	6.64e-95	293.0
273	61	318	3.09e-94	292.0
274	257	514	1.45e-93	290.0
275	35	290	7.86e-93	288.0
276	201	458	1.50e-92	288.0
277	273	542	1.99e-91	285.0
278	313	545	7.96e-89	278.0
279	1	234	6.69e-82	260.0
280	2	95	4.70e-26	110.0
281	145	404	4.65e-100	303.0
282	89	365	9.51e-100	302.0
283	61	318	6.00e-99	300.0
284	5	262	7.69e-99	300.0
285	6	309	1.08e-97	297.0
286	1	250	1.31e-87	271.0
287	173	411	2.37e-83	260.0
288	22	315	5.27e-100	302.0
289	114	371	1.20e-92	283.0
290	142	395	7.39e-91	278.0
291	198	397	3.89e-72	230.0
292	145	402	5.85e-100	303.0

293	89	350	5.11e-99	300.0
294	117	374	1.05e-97	297.0
295	173	426	1.21e-96	294.0
296	61	333	8.77e-96	292.0
297	5	262	7.48e-94	287.0
298	35	306	1.92e-92	283.0
299	1	234	1.59e-82	258.0
300	229	428	8.96e-69	223.0
301	2	197	3.96e-62	205.0
302	145	434	7.75e-100	303.0
303	193	458	9.83e-100	303.0
304	13	290	2.10e-96	295.0
305	117	375	7.20e-96	293.0
306	61	318	9.96e-96	293.0
307	5	262	6.29e-93	286.0
308	1	234	1.81e-86	269.0
309	285	459	3.29e-60	201.0
310	223	493	8.86e-100	305.0
311	165	422	1.29e-93	289.0
312	137	394	3.70e-93	288.0
313	193	450	5.02e-90	280.0
314	109	366	8.97e-90	279.0
315	81	338	9.98e-86	269.0
316	14	310	5.87e-85	267.0
317	277	508	8.73e-85	266.0
318	58	255	3.52e-56	192.0
319	35	311	1.60e-99	300.0
320	54	320	1.86e-95	290.0
321	4	280	3.18e-86	266.0
322	119	361	6.22e-85	263.0
323	149	365	7.98e-74	234.0
324	58	331	2.71e-99	298.0
325	21	303	2.18e-96	291.0
326	86	339	2.56e-94	286.0
327	193	458	2.81e-99	302.0
328	13	290	1.91e-96	295.0
329	145	402	5.93e-96	293.0
330	61	318	9.33e-96	293.0
331	117	378	2.78e-94	289.0
332	5	262	5.71e-93	286.0
333	1	234	1.51e-86	270.0
334	285	459	2.04e-56	191.0
335	58	313	7.62e-99	301.0

336	86	362	6.29e-97	296.0
337	142	399	2.92e-94	289.0
338	32	285	7.63e-94	288.0
339	170	428	2.17e-93	287.0
340	114	369	2.59e-93	286.0
341	1	278	1.02e-89	277.0
342	14	275	1.23e-98	296.0
343	50	308	1.39e-92	281.0
344	1	251	6.32e-90	274.0
345	78	333	1.03e-85	263.0
346	1	227	2.89e-82	254.0
347	39	310	1.49e-98	297.0
348	21	284	2.51e-89	273.0
349	177	311	3.47e-34	130.0
350	35	146	2.23e-32	125.0
351	193	462	1.65e-98	303.0
352	145	403	9.67e-98	301.0
353	285	542	7.09e-96	296.0
354	13	290	2.75e-95	295.0
355	61	318	1.20e-94	293.0
356	257	518	1.97e-94	292.0
357	117	374	1.37e-92	288.0
358	5	262	7.35e-92	286.0
359	1	234	1.68e-85	269.0
360	369	543	3.94e-58	198.0
361	117	393	1.78e-98	302.0
362	61	337	1.91e-97	299.0
363	145	421	2.63e-95	293.0
364	229	487	2.08e-94	291.0
365	201	458	7.34e-94	290.0
366	33	290	1.45e-93	289.0
367	173	428	2.98e-93	288.0
368	5	260	2.92e-92	286.0
369	1	253	6.82e-90	280.0
370	244	502	1.83e-98	302.0
371	216	492	1.20e-95	295.0
372	160	433	9.71e-93	287.0
373	132	389	5.64e-90	280.0
374	49	303	1.08e-88	277.0
375	95	361	1.84e-84	266.0
376	272	504	2.31e-82	261.0
377	49	277	2.41e-77	248.0
378	49	250	1.18e-62	209.0

379	193	462	1.85e-98	303.0
380	145	403	1.18e-97	301.0
381	13	290	3.54e-95	294.0
382	61	318	1.46e-94	293.0
383	117	374	1.69e-92	287.0
384	285	545	1.77e-92	287.0
385	257	521	5.70e-92	286.0
386	5	262	8.67e-92	286.0
387	1	234	2.13e-85	269.0
388	369	546	2.77e-55	190.0
389	221	490	2.31e-98	303.0
390	173	431	1.33e-97	301.0
391	41	318	4.46e-95	295.0
392	5	262	9.07e-95	294.0
393	89	346	1.75e-94	293.0
394	313	570	4.79e-94	292.0
395	145	402	1.96e-92	288.0
396	33	290	1.02e-91	286.0
397	285	546	4.70e-89	279.0
398	1	234	2.14e-85	270.0
399	397	571	7.55e-55	189.0
400	117	393	2.44e-98	300.0
401	61	337	9.02e-98	299.0
402	229	484	1.56e-96	296.0
403	145	421	1.54e-95	293.0
404	201	459	1.59e-95	293.0
405	33	290	6.57e-94	289.0
406	173	430	1.63e-93	288.0
407	5	262	9.88e-92	283.0
408	1	253	7.70e-88	273.0
409	104	357	2.45e-98	298.0
410	12	309	3.58e-95	290.0
411	68	333	2.05e-93	286.0
412	132	390	1.25e-89	276.0
413	160	415	4.56e-87	270.0
414	145	403	2.49e-98	300.0
415	193	461	5.57e-97	297.0
416	13	290	7.43e-96	294.0
417	61	318	3.30e-95	293.0
418	117	374	3.48e-93	287.0
419	5	262	2.00e-92	285.0
420	1	234	5.14e-86	269.0
421	257	486	8.56e-78	248.0

422	89	365	3.60e-98	300.0
423	33	309	4.52e-98	300.0
424	61	316	2.54e-97	298.0
425	117	393	7.96e-96	294.0
426	5	262	1.99e-95	293.0
427	201	459	6.12e-95	292.0
428	173	430	2.26e-94	290.0
429	145	400	8.79e-94	289.0
430	1	232	3.25e-89	277.0
431	2	95	1.70e-17	84.7
432	117	393	3.83e-98	301.0
433	61	337	2.08e-97	299.0
434	145	421	2.75e-95	293.0
435	33	290	4.71e-95	293.0
436	229	487	2.20e-94	291.0
437	89	344	3.10e-94	291.0
438	201	458	8.63e-94	290.0
439	5	260	2.62e-93	288.0
440	173	428	3.28e-93	288.0
441	1	253	7.75e-89	277.0
442	89	346	4.66e-98	301.0
443	145	402	1.19e-97	300.0
444	229	486	3.01e-95	294.0
445	13	290	9.83e-95	293.0
446	173	430	1.53e-94	292.0
447	257	514	3.25e-94	291.0
448	285	536	5.25e-92	286.0
449	5	262	2.65e-90	281.0
450	1	234	1.45e-83	264.0
451	256	513	8.44e-98	306.0
452	124	417	2.06e-96	302.0
453	172	429	4.39e-96	301.0
454	396	653	4.83e-96	301.0
455	88	345	3.66e-94	296.0
456	200	457	7.54e-94	296.0
457	368	625	2.21e-93	294.0
458	426	681	2.70e-93	294.0
459	312	569	1.70e-92	292.0
460	16	317	4.51e-92	291.0
461	116	373	1.20e-91	290.0
462	340	613	4.10e-91	288.0
463	228	485	4.00e-89	283.0
464	452	711	1.90e-88	281.0

465	41	301	1.04e-97	293.0
466	41	279	1.69e-81	251.0
467	145	421	1.06e-97	297.0
468	108	372	3.86e-95	291.0
469	173	428	4.50e-93	285.0
470	52	318	4.22e-92	283.0
471	80	344	1.61e-91	281.0
472	201	433	3.14e-83	260.0
473	25	322	1.62e-97	296.0
474	81	346	4.43e-96	293.0
475	145	403	8.07e-93	285.0
476	117	372	8.34e-92	282.0
477	315	618	1.79e-97	307.0
478	248	505	5.34e-94	298.0
479	104	365	7.46e-88	282.0
480	220	477	1.11e-87	281.0
481	416	674	2.07e-87	281.0
482	295	561	3.15e-87	280.0
483	183	449	9.58e-85	273.0
484	473	730	1.12e-84	273.0
485	500	755	2.97e-84	272.0
486	444	702	1.12e-80	263.0
487	42	309	8.11e-78	255.0
488	81	338	1.51e-76	252.0
489	687	783	3.61e-16	81.3
490	89	365	1.98e-97	297.0
491	117	393	2.92e-97	297.0
492	201	456	6.44e-97	296.0
493	61	318	1.37e-96	295.0
494	33	309	3.87e-96	294.0
495	173	431	6.65e-96	293.0
496	5	262	4.12e-94	289.0
497	145	402	7.00e-94	288.0
498	1	234	5.02e-89	276.0
499	2	95	1.60e-17	84.7
500	35	309	2.21e-97	296.0
501	61	337	7.12e-97	295.0
502	145	403	4.94e-96	293.0
503	117	374	1.77e-95	291.0
504	89	344	6.92e-95	290.0
505	5	260	4.96e-93	285.0
506	1	253	3.69e-86	268.0
507	24	290	2.85e-97	291.0

508	5	281	4.40e-94	283.0
509	1	234	1.85e-86	264.0
510	61	293	3.18e-86	263.0
511	79	350	2.87e-97	295.0
512	149	406	2.18e-96	293.0
513	121	378	3.58e-96	293.0
514	61	322	7.46e-94	286.0
515	5	266	5.01e-93	285.0
516	1	238	1.01e-86	268.0
517	177	409	7.64e-86	266.0
518	2	142	5.01e-40	147.0
519	89	346	3.80e-97	295.0
520	145	402	1.77e-96	293.0
521	117	374	2.85e-96	293.0
522	5	262	2.30e-95	290.0
523	33	290	2.66e-94	288.0
524	61	318	5.10e-94	287.0
525	1	234	1.28e-87	270.0
526	173	405	6.17e-86	266.0
527	23	278	4.89e-97	292.0
528	2	250	7.56e-96	289.0
529	51	303	5.39e-87	266.0
530	81	334	4.66e-83	256.0
531	95	332	3.30e-68	218.0
532	1	82	2.43e-24	102.0
533	313	570	7.62e-97	300.0
534	341	594	1.30e-94	294.0
535	235	518	5.70e-94	293.0
536	285	542	9.23e-94	292.0
537	397	596	1.93e-68	226.0
538	5	290	5.31e-65	217.0
539	2	209	2.87e-64	215.0
540	1	199	4.16e-59	201.0
541	1	151	3.33e-47	169.0
542	100	421	8.96e-97	295.0
543	173	430	2.70e-94	289.0
544	5	262	5.33e-92	283.0
545	89	350	5.69e-92	283.0
546	33	291	6.39e-91	280.0
547	52	322	1.30e-90	280.0
548	1	234	4.00e-81	255.0
549	245	440	7.10e-58	195.0
550	117	374	9.14e-97	295.0

551	173	430	4.39e-96	293.0
552	145	402	6.84e-96	293.0
553	5	262	8.98e-94	287.0
554	89	346	1.18e-93	287.0
555	61	318	1.31e-93	287.0
556	33	290	2.76e-91	281.0
557	1	234	1.19e-85	266.0
558	201	433	1.58e-85	266.0
559	48	302	9.56e-97	290.0
560	6	275	9.69e-96	288.0
561	7	249	2.35e-82	253.0
562	120	302	4.38e-59	194.0
563	126	381	9.71e-97	294.0
564	98	355	9.55e-91	279.0
565	50	327	6.22e-83	259.0
566	126	381	9.71e-97	294.0
567	98	355	9.55e-91	279.0
568	50	327	6.22e-83	259.0
569	126	381	9.71e-97	294.0
570	98	355	9.55e-91	279.0
571	50	327	6.22e-83	259.0
572	126	381	9.71e-97	294.0
573	98	355	9.55e-91	279.0
574	50	327	6.22e-83	259.0
575	126	381	9.71e-97	294.0
576	98	355	9.55e-91	279.0
577	50	327	6.22e-83	259.0
578	10	267	1.02e-96	290.0
579	38	293	3.14e-94	284.0
580	54	306	1.62e-84	259.0
581	1	239	2.95e-83	256.0
582	2	202	6.84e-59	193.0
583	59	334	1.06e-96	295.0
584	3	259	1.19e-95	292.0
585	87	346	4.21e-95	290.0
586	143	402	6.28e-95	290.0
587	171	430	1.56e-94	289.0
588	115	374	1.10e-93	287.0
589	25	309	1.14e-92	284.0
590	1	234	3.03e-86	268.0
591	199	433	8.00e-86	267.0
592	2	197	5.49e-64	210.0
593	126	383	1.11e-96	294.0

594	98	355	1.47e-91	281.0
595	50	327	3.07e-82	257.0
596	126	383	1.11e-96	294.0
597	98	355	1.47e-91	281.0
598	50	327	3.07e-82	257.0
599	126	383	1.11e-96	294.0
600	98	355	1.47e-91	281.0
601	50	327	3.07e-82	257.0
602	126	383	1.11e-96	294.0
603	98	355	1.47e-91	281.0
604	50	327	3.07e-82	257.0
605	126	383	1.11e-96	294.0
606	98	355	1.47e-91	281.0
607	50	327	3.07e-82	257.0
608	126	383	1.11e-96	294.0
609	98	355	1.47e-91	281.0
610	50	327	3.07e-82	257.0
611	126	383	1.11e-96	294.0
612	98	355	1.47e-91	281.0
613	50	327	3.07e-82	257.0
614	126	383	1.11e-96	294.0
615	98	355	1.47e-91	281.0
616	50	327	3.07e-82	257.0
617	126	383	1.11e-96	294.0
618	98	355	1.47e-91	281.0
619	50	327	3.07e-82	257.0
620	126	383	1.11e-96	294.0
621	98	355	1.47e-91	281.0
622	50	327	3.07e-82	257.0
623	126	383	1.11e-96	294.0
624	98	355	1.47e-91	281.0
625	50	327	3.07e-82	257.0
626	126	383	1.11e-96	294.0
627	98	355	1.47e-91	281.0
628	50	327	3.07e-82	257.0
629	126	383	1.11e-96	294.0
630	98	355	1.47e-91	281.0
631	50	327	3.07e-82	257.0
632	126	383	1.11e-96	294.0
633	98	355	1.47e-91	281.0
634	50	327	3.07e-82	257.0
635	107	364	1.38e-96	293.0
636	79	336	1.66e-91	280.0

637	31	308	3.24e-82	256.0
638	107	364	1.38e-96	293.0
639	79	336	1.66e-91	280.0
640	31	308	3.24e-82	256.0
641	107	364	1.38e-96	293.0
642	79	336	1.66e-91	280.0
643	31	308	3.24e-82	256.0
644	107	364	1.38e-96	293.0
645	79	336	1.66e-91	280.0
646	31	308	3.24e-82	256.0
647	107	364	1.38e-96	293.0
648	79	336	1.66e-91	280.0
649	31	308	3.24e-82	256.0
650	107	364	1.38e-96	293.0
651	79	336	1.66e-91	280.0
652	31	308	3.24e-82	256.0
653	107	364	1.38e-96	293.0
654	79	336	1.66e-91	280.0
655	31	308	3.24e-82	256.0
656	107	364	1.38e-96	293.0
657	79	336	1.66e-91	280.0
658	31	308	3.24e-82	256.0
659	107	364	1.38e-96	293.0
660	79	336	1.66e-91	280.0
661	31	308	3.24e-82	256.0
662	107	364	1.38e-96	293.0
663	79	336	1.66e-91	280.0
664	31	308	3.24e-82	256.0
665	107	364	1.38e-96	293.0
666	79	336	1.66e-91	280.0
667	31	308	3.24e-82	256.0
668	107	364	1.38e-96	293.0
669	79	336	1.66e-91	280.0
670	31	308	3.24e-82	256.0
671	167	426	1.65e-96	294.0
672	157	400	5.72e-84	262.0
673	152	366	1.11e-71	230.0
674	146	359	1.38e-59	199.0
675	151	406	1.81e-96	294.0
676	123	378	1.81e-90	279.0
677	75	350	1.28e-82	259.0
678	245	500	2.77e-96	298.0
679	273	528	3.72e-95	295.0

680	325	582	5.12e-93	290.0
681	297	557	7.06e-93	290.0
682	213	491	3.14e-90	283.0
683	157	435	5.59e-90	282.0
684	129	388	1.46e-83	265.0
685	101	360	2.19e-82	262.0
686	52	304	5.49e-79	253.0
687	19	217	1.09e-47	171.0
688	70	327	3.46e-96	292.0
689	42	315	2.96e-90	276.0
690	9	243	1.46e-87	270.0
691	14	271	1.51e-86	267.0
692	182	375	2.73e-65	213.0
693	9	66	1.64e-07	53.9
694	301	556	3.52e-96	301.0
695	329	605	2.08e-94	296.0
696	273	528	4.14e-93	293.0
697	385	642	9.54e-92	290.0
698	245	521	2.82e-91	288.0
699	413	671	6.19e-91	287.0
700	357	612	8.89e-91	287.0
701	189	444	1.02e-87	279.0
702	161	437	1.60e-85	273.0
703	133	409	8.80e-85	271.0
704	82	381	8.20e-81	261.0
705	81	248	7.08e-47	170.0
706	171	430	3.63e-96	295.0
707	31	290	3.33e-94	290.0
708	143	402	1.97e-91	283.0
709	59	318	2.01e-91	283.0
710	3	262	6.88e-90	279.0
711	115	374	2.06e-89	278.0
712	87	346	1.19e-88	276.0
713	227	481	3.57e-86	270.0
714	1	234	5.17e-84	264.0
715	2	95	2.26e-17	84.3
716	257	512	3.66e-96	296.0
717	147	421	1.27e-95	295.0
718	173	449	3.92e-95	293.0
719	229	487	3.92e-95	293.0
720	61	318	4.33e-94	290.0
721	201	456	4.25e-93	288.0
722	117	372	9.95e-92	285.0

723	33	288	2.11e-91	283.0
724	5	281	3.77e-89	278.0
725	1	253	1.93e-85	268.0
726	145	405	3.72e-96	298.0
727	5	262	6.26e-95	295.0
728	201	458	1.82e-93	291.0
729	231	486	7.83e-93	289.0
730	89	346	7.95e-91	284.0
731	61	318	1.74e-90	283.0
732	313	570	2.50e-88	278.0
733	285	542	6.76e-88	276.0
734	341	574	1.34e-83	265.0
735	1	234	9.28e-82	260.0
736	2	39	9.76e-07	52.0
737	129	402	4.64e-96	293.0
738	101	356	6.90e-93	285.0
739	73	328	6.18e-92	283.0
740	28	300	1.69e-91	282.0
741	157	412	3.16e-89	276.0
742	185	427	3.44e-83	261.0
743	40	298	4.83e-96	288.0
744	12	267	4.49e-95	286.0
745	2	241	2.11e-88	269.0
746	2	217	1.54e-79	246.0
747	117	374	5.83e-96	306.0
748	173	430	2.24e-92	296.0
749	91	346	1.20e-91	295.0
750	33	294	2.69e-90	291.0
751	397	654	1.01e-89	290.0
752	677	934	2.04e-89	288.0
753	145	402	2.57e-89	288.0
754	257	530	3.69e-89	288.0
755	7	277	1.22e-88	286.0
756	201	458	1.35e-88	286.0
757	369	645	2.32e-88	286.0
758	481	738	4.02e-88	285.0
759	509	766	2.98e-87	283.0
760	453	726	3.86e-87	283.0
761	301	570	4.74e-87	282.0
762	593	850	5.00e-87	282.0
763	63	318	6.27e-87	282.0
764	621	894	1.17e-86	281.0
765	649	906	1.66e-86	281.0

766	341	598	4.68e-86	280.0
767	565	822	1.72e-85	278.0
768	229	486	2.41e-84	275.0
769	425	682	4.59e-82	269.0
770	537	792	1.53e-81	268.0
771	1	250	1.94e-79	262.0
772	705	937	1.56e-78	259.0
773	25	319	6.28e-96	291.0
774	136	372	4.52e-77	242.0
775	66	182	8.46e-35	132.0
776	25	319	6.96e-96	291.0
777	118	376	3.57e-93	285.0
778	90	345	3.46e-92	282.0
779	58	295	1.76e-88	273.0
780	394	651	8.64e-96	305.0
781	562	819	8.82e-96	305.0
782	310	567	1.62e-95	304.0
783	338	595	6.80e-95	303.0
784	262	555	1.70e-93	299.0
785	450	707	2.12e-93	299.0
786	204	483	1.10e-92	297.0
787	534	791	1.13e-92	297.0
788	506	779	1.34e-92	296.0
789	590	847	1.35e-92	296.0
790	478	735	1.25e-90	291.0
791	194	455	1.43e-89	288.0
792	254	511	1.09e-88	286.0
793	618	877	3.16e-88	285.0
794	146	427	2.69e-83	272.0
795	626	884	7.87e-80	263.0
796	56	343	4.31e-79	260.0
797	35	315	9.29e-67	227.0
798	34	197	2.50e-38	147.0
799	190	443	8.82e-96	295.0
800	96	363	3.51e-95	293.0
801	51	307	1.04e-94	292.0
802	136	395	1.77e-94	291.0
803	78	335	1.20e-91	284.0
804	154	419	1.41e-91	284.0
805	218	476	1.82e-88	276.0
806	246	501	5.66e-86	269.0
807	34	279	2.00e-82	260.0
808	34	266	2.01e-72	234.0

809	91	344	1.49e-95	289.0
810	43	316	1.51e-90	276.0
811	117	355	1.13e-83	259.0
812	63	309	4.41e-80	249.0
813	52	318	1.59e-95	288.0
814	89	321	4.00e-86	264.0
815	66	182	1.75e-37	138.0
816	313	570	2.18e-95	299.0
817	425	682	3.03e-94	296.0
818	229	486	1.25e-93	294.0
819	102	390	5.73e-93	292.0
820	341	598	7.24e-93	292.0
821	230	514	3.15e-92	290.0
822	172	474	5.77e-92	290.0
823	386	654	2.91e-91	288.0
824	369	626	7.33e-91	287.0
825	119	402	3.11e-90	285.0
826	285	542	1.88e-88	281.0
827	89	346	1.12e-87	279.0
828	33	290	8.48e-86	274.0
829	5	262	1.12e-83	268.0
830	453	685	2.31e-80	259.0
831	1	234	8.47e-74	242.0
832	3	57	5.00e-03	40.4
833	25	319	2.96e-95	288.0
834	53	344	1.45e-92	281.0
835	66	238	1.75e-63	206.0
836	81	338	3.63e-95	296.0
837	1	254	1.61e-94	294.0
838	137	394	2.90e-94	293.0
839	249	506	7.07e-94	293.0
840	25	282	3.96e-93	291.0
841	277	534	1.34e-92	289.0
842	221	478	1.36e-92	289.0
843	193	450	2.11e-92	289.0
844	53	310	1.19e-91	287.0
845	109	366	1.51e-91	286.0
846	305	562	2.32e-91	286.0
847	165	422	6.05e-90	282.0
848	333	588	3.12e-88	278.0
849	361	589	2.03e-71	234.0
850	1	202	7.24e-68	225.0
851	445	591	1.19e-38	146.0

852	79	346	4.85e-95	288.0
853	119	374	1.25e-91	280.0
854	52	334	1.29e-91	280.0
855	146	377	1.93e-88	271.0
856	49	290	1.78e-81	254.0
857	173	376	4.04e-72	230.0
858	229	377	1.52e-45	160.0
859	60	317	6.26e-95	295.0
860	2	259	3.20e-94	293.0
861	144	401	3.67e-92	287.0
862	32	289	1.69e-90	283.0
863	88	345	1.29e-89	281.0
864	228	504	5.43e-89	279.0
865	284	541	1.80e-88	278.0
866	300	569	5.78e-88	276.0
867	200	457	6.17e-88	276.0
868	172	429	2.28e-87	275.0
869	116	392	4.65e-86	271.0
870	340	572	5.18e-76	245.0
871	1	81	6.14e-16	80.1
872	506	571	5.29e-15	77.4
873	145	402	7.56e-95	297.0
874	229	486	3.12e-93	293.0
875	313	570	7.24e-93	292.0
876	61	318	7.83e-91	287.0
877	425	678	3.95e-90	285.0
878	397	673	1.11e-89	284.0
879	105	374	1.21e-89	284.0
880	23	290	1.73e-89	283.0
881	191	458	2.82e-89	283.0
882	257	514	1.87e-88	280.0
883	359	626	4.47e-88	280.0
884	89	346	1.84e-87	278.0
885	273	542	1.05e-86	276.0
886	5	260	6.85e-86	274.0
887	1	234	1.04e-84	271.0
888	257	514	8.86e-95	301.0
889	341	602	7.34e-94	299.0
890	61	318	6.96e-93	296.0
891	147	421	2.43e-92	295.0
892	173	449	7.01e-92	293.0
893	117	374	1.44e-90	290.0
894	229	486	2.31e-90	290.0

895	201	458	6.58e-90	288.0
896	89	365	1.30e-89	288.0
897	397	658	3.07e-89	286.0
898	33	290	1.24e-88	285.0
899	5	281	1.90e-87	282.0
900	313	570	2.90e-86	278.0
901	1	253	1.29e-85	277.0
902	425	682	1.48e-85	277.0
903	496	766	1.05e-81	266.0
904	537	792	1.35e-80	263.0
905	453	769	2.25e-80	263.0
906	593	850	2.42e-80	263.0
907	677	851	3.21e-51	183.0
908	143	400	9.96e-95	296.0
909	77	344	2.35e-91	287.0
910	171	428	4.95e-91	286.0
911	107	372	7.05e-90	283.0
912	61	335	5.23e-88	278.0
913	255	540	3.58e-86	274.0
914	227	484	3.60e-85	271.0
915	339	641	6.95e-85	270.0
916	283	565	1.32e-82	264.0
917	423	642	3.97e-65	218.0
918	598	642	7.00e-03	39.7
919	49	337	1.09e-94	287.0
920	13	290	3.26e-94	286.0
921	5	262	9.22e-94	285.0
922	117	372	9.31e-87	267.0
923	1	234	6.05e-86	265.0
924	145	399	1.11e-94	288.0
925	117	390	6.35e-94	286.0
926	59	316	3.94e-91	279.0
927	31	290	3.55e-89	274.0
928	10	262	4.50e-88	271.0
929	87	362	2.65e-87	270.0
930	1	234	2.52e-79	249.0
931	2	123	3.86e-34	130.0
932	2	252	1.16e-94	288.0
933	23	280	7.54e-94	286.0
934	81	336	2.49e-91	280.0
935	95	407	1.84e-90	278.0
936	51	308	2.09e-85	265.0
937	1	84	2.50e-22	98.2

938	52	318	1.21e-94	286.0
939	79	319	1.17e-84	260.0
940	66	263	2.51e-65	211.0
941	148	322	2.63e-63	205.0
942	229	321	1.00e-21	95.5
943	52	318	1.61e-94	286.0
944	89	344	8.03e-91	277.0
945	117	345	1.01e-84	261.0
946	201	347	7.14e-46	161.0
947	201	474	1.85e-94	290.0
948	229	483	1.29e-92	286.0
949	137	402	2.39e-90	280.0
950	175	449	3.77e-90	280.0
951	61	318	7.86e-88	273.0
952	69	344	1.29e-86	270.0
953	108	374	5.75e-86	269.0
954	23	290	9.90e-84	263.0
955	7	262	2.41e-76	244.0
956	1	234	4.88e-73	235.0
957	147	402	2.16e-94	298.0
958	61	338	1.23e-93	296.0
959	369	626	2.90e-93	295.0
960	397	654	1.37e-92	293.0
961	117	374	2.51e-92	293.0
962	481	739	3.79e-92	292.0
963	341	617	4.44e-92	292.0
964	509	764	1.25e-91	291.0
965	427	701	3.72e-91	290.0
966	89	346	2.34e-90	288.0
967	313	570	2.39e-90	288.0
968	229	505	2.57e-90	288.0
969	453	710	3.46e-90	287.0
970	33	293	4.80e-90	287.0
971	285	542	6.12e-90	286.0
972	257	533	9.13e-90	286.0
973	5	279	1.89e-89	285.0
974	184	477	2.31e-89	285.0
975	1	253	9.57e-86	275.0
976	112	368	2.28e-94	288.0
977	55	310	2.11e-93	286.0
978	27	282	3.83e-93	285.0
979	83	338	1.86e-91	281.0
980	140	392	2.09e-90	278.0

981	155	425	3.43e-88	273.0
982	4	272	3.76e-87	270.0
983	25	319	2.40e-94	286.0
984	117	372	9.68e-93	283.0
985	81	347	1.67e-91	279.0
986	66	238	1.41e-57	192.0
987	3	250	2.51e-94	288.0
988	11	278	5.01e-93	285.0
989	77	332	6.22e-92	282.0
990	49	306	3.74e-91	280.0
991	133	407	2.34e-89	276.0
992	1	222	9.43e-76	241.0
993	217	416	1.20e-63	209.0
994	275	424	1.13e-36	138.0
995	1	45	1.10e+00	32.7
996	25	282	2.67e-94	288.0
997	81	338	3.55e-92	282.0
998	137	394	3.63e-91	280.0
999	1	254	7.49e-91	279.0
1000	109	367	7.74e-91	279.0
1001	165	414	5.59e-88	271.0
1002	1	227	3.14e-78	246.0
1003	1	202	6.33e-66	215.0
1004	173	430	3.60e-94	300.0
1005	137	402	1.11e-93	298.0
1006	538	791	4.87e-92	294.0
1007	89	346	6.03e-88	283.0
1008	229	487	1.26e-86	280.0
1009	61	337	4.29e-86	278.0
1010	481	743	4.66e-86	278.0
1011	33	290	3.84e-85	276.0
1012	566	824	6.82e-85	275.0
1013	515	767	2.34e-84	273.0
1014	257	512	3.81e-84	273.0
1015	594	849	3.23e-83	270.0
1016	7	262	1.28e-78	258.0
1017	1	234	1.40e-73	244.0
1018	8	265	4.49e-94	283.0
1019	36	283	1.61e-91	277.0
1020	3	237	2.06e-86	264.0
1021	176	285	1.54e-30	119.0
1022	88	349	4.54e-94	285.0
1023	25	324	8.20e-86	264.0

1024	67	293	1.78e-81	253.0
1025	180	349	3.89e-40	145.0
1026	109	364	5.12e-94	285.0
1027	69	336	4.09e-90	276.0
1028	42	308	5.72e-90	275.0
1029	137	367	6.68e-85	262.0
1030	163	366	4.95e-68	219.0
1031	210	367	1.91e-45	160.0
1032	53	169	4.25e-31	122.0
1033	5	260	5.65e-94	283.0
1034	33	292	3.48e-91	276.0
1035	1	232	3.25e-87	266.0
1036	4	277	5.94e-94	284.0
1037	32	289	6.62e-93	281.0
1038	60	317	3.38e-92	279.0
1039	3	233	7.52e-84	258.0
1040	88	319	1.35e-83	257.0
1041	2	205	3.61e-69	220.0
1042	247	320	3.03e-18	85.5
1043	1	65	1.56e-13	71.6
1044	122	390	6.03e-94	287.0
1045	145	398	7.95e-90	276.0
1046	173	411	1.71e-84	263.0
1047	576	852	6.51e-94	308.0
1048	604	880	9.03e-94	307.0
1049	1444	1701	2.17e-93	306.0
1050	679	945	4.02e-92	302.0
1051	520	793	1.55e-91	301.0
1052	1416	1673	2.41e-91	300.0
1053	492	749	3.22e-91	300.0
1054	632	908	9.20e-91	298.0
1055	660	917	1.26e-90	298.0
1056	2312	2569	1.81e-90	298.0
1057	2116	2389	1.88e-90	298.0
1058	2424	2681	1.99e-90	298.0
1059	763	1029	2.68e-90	297.0
1060	716	992	2.73e-90	297.0
1061	2340	2597	7.16e-90	296.0
1062	548	805	1.00e-89	295.0
1063	2452	2709	1.28e-89	295.0
1064	791	1076	1.86e-89	295.0
1065	436	693	2.34e-89	295.0
1066	1360	1618	3.41e-89	294.0

1067	464	721	3.75e-89	294.0
1068	2228	2485	4.64e-89	293.0
1069	744	1001	8.43e-89	293.0
1070	2256	2513	9.02e-89	293.0
1071	2202	2457	1.11e-88	292.0
1072	1388	1645	1.26e-88	292.0
1073	884	1139	1.84e-88	292.0
1074	372	637	4.01e-88	291.0
1075	1808	2063	5.01e-88	291.0
1076	2396	2653	7.22e-88	290.0
1077	1864	2119	1.77e-87	289.0
1078	856	1132	2.43e-87	288.0
1079	1192	1450	2.62e-87	288.0
1080	1836	2091	5.84e-87	288.0
1081	408	685	1.05e-86	287.0
1082	828	1085	1.19e-86	286.0
1083	2510	2765	1.36e-86	286.0
1084	2368	2625	1.37e-86	286.0
1085	2592	2879	1.39e-86	286.0
1086	1500	1757	5.04e-86	285.0
1087	2284	2541	9.62e-86	284.0
1088	1780	2057	1.20e-85	284.0
1089	1530	1785	1.54e-85	283.0
1090	2172	2429	1.71e-85	283.0
1091	1892	2147	1.92e-85	283.0
1092	2144	2401	2.57e-85	283.0
1093	1276	1533	2.85e-85	283.0
1094	1238	1505	3.39e-85	282.0
1095	2480	2737	4.99e-85	282.0
1096	2564	2821	7.48e-85	281.0
1097	352	609	2.00e-84	280.0
1098	2536	2793	4.84e-84	279.0
1099	1332	1589	6.78e-84	279.0
1100	968	1223	9.13e-84	278.0
1101	912	1169	2.15e-83	277.0
1102	1744	2009	2.74e-83	277.0
1103	324	601	3.55e-83	276.0
1104	1304	1561	5.85e-83	276.0
1105	268	525	7.59e-83	276.0
1106	1080	1335	8.52e-83	276.0
1107	2060	2333	1.05e-82	275.0
1108	1567	1885	1.66e-82	275.0
1109	1920	2175	3.25e-82	274.0

1110	1948	2233	3.41e-82	274.0
1111	2032	2289	3.68e-82	274.0
1112	296	553	5.15e-82	273.0
1113	2088	2345	2.06e-81	271.0
1114	1004	1281	2.78e-81	271.0
1115	1724	1981	4.45e-81	271.0
1116	240	497	7.85e-81	270.0
1117	1108	1366	1.02e-80	270.0
1118	184	441	1.26e-80	269.0
1119	2004	2261	2.20e-80	268.0
1120	1668	1925	3.92e-80	268.0
1121	128	385	1.54e-79	266.0
1122	1154	1421	4.69e-79	265.0
1123	1696	1973	5.96e-79	265.0
1124	996	1251	7.88e-79	264.0
1125	102	357	3.96e-73	248.0
1126	77	348	4.31e-71	242.0
1127	1	254	6.91e-94	284.0
1128	25	286	5.13e-90	274.0
1129	53	302	1.81e-86	265.0
1130	17	303	7.05e-94	286.0
1131	103	359	4.27e-92	281.0
1132	130	387	2.82e-90	277.0
1133	1	247	6.09e-84	261.0
1134	160	390	3.25e-83	259.0
1135	187	389	4.90e-73	233.0
1136	214	389	4.00e-61	202.0
1137	242	390	8.12e-46	162.0
1138	30	287	8.45e-94	284.0
1139	86	341	1.26e-92	281.0
1140	58	315	3.81e-92	280.0
1141	7	263	4.80e-90	275.0
1142	114	345	1.26e-80	251.0
1143	284	346	1.76e-13	72.0
1144	583	840	1.13e-93	300.0
1145	555	816	1.59e-93	300.0
1146	370	672	6.77e-91	293.0
1147	594	892	9.24e-91	292.0
1148	471	747	7.07e-90	290.0
1149	331	586	3.68e-89	288.0
1150	527	788	1.54e-88	286.0
1151	202	504	5.50e-88	285.0
1152	443	719	5.59e-87	282.0

1153	163	420	3.67e-86	280.0
1154	135	392	8.05e-86	279.0
1155	275	532	5.17e-85	277.0
1156	487	760	8.84e-85	276.0
1157	669	925	4.15e-84	275.0
1158	301	560	2.42e-83	273.0
1159	107	362	4.13e-83	272.0
1160	695	950	6.45e-82	269.0
1161	56	308	2.34e-79	262.0
1162	80	336	8.94e-79	260.0
1163	504	773	1.21e-93	299.0
1164	348	605	9.38e-93	297.0
1165	208	465	1.29e-91	294.0
1166	532	801	2.74e-91	293.0
1167	600	857	6.58e-91	292.0
1168	423	689	1.30e-90	291.0
1169	292	549	1.44e-90	291.0
1170	180	437	1.85e-90	291.0
1171	404	659	2.45e-90	290.0
1172	124	381	1.27e-89	288.0
1173	320	577	2.53e-89	288.0
1174	376	633	3.42e-89	287.0
1175	123	409	3.57e-89	287.0
1176	28	297	6.26e-89	287.0
1177	236	493	8.55e-89	286.0
1178	68	325	2.30e-88	285.0
1179	84	353	3.34e-88	285.0
1180	12	269	1.08e-87	283.0
1181	628	901	1.61e-87	283.0
1182	460	717	1.88e-87	283.0
1183	459	745	2.22e-87	283.0
1184	264	521	1.20e-86	281.0
1185	2	239	5.56e-84	273.0
1186	2	176	9.23e-49	177.0
1187	109	364	1.40e-93	285.0
1188	69	336	1.06e-89	275.0
1189	42	308	8.47e-89	272.0
1190	137	368	5.09e-85	263.0
1191	163	366	1.00e-67	218.0
1192	210	367	3.17e-45	159.0
1193	247	368	6.41e-35	132.0
1194	53	169	6.37e-31	121.0
1195	109	364	1.40e-93	285.0

1196	69	336	1.06e-89	275.0
1197	42	308	8.47e-89	272.0
1198	137	368	5.09e-85	263.0
1199	163	366	1.00e-67	218.0
1200	210	367	3.17e-45	159.0
1201	247	368	6.41e-35	132.0
1202	53	169	6.37e-31	121.0
1203	109	364	1.40e-93	285.0
1204	69	336	1.06e-89	275.0
1205	42	308	8.47e-89	272.0
1206	137	368	5.09e-85	263.0
1207	163	366	1.00e-67	218.0
1208	210	367	3.17e-45	159.0
1209	247	368	6.41e-35	132.0
1210	53	169	6.37e-31	121.0
1211	109	364	1.40e-93	285.0
1212	69	336	1.06e-89	275.0
1213	42	308	8.47e-89	272.0
1214	137	368	5.09e-85	263.0
1215	163	366	1.00e-67	218.0
1216	210	367	3.17e-45	159.0
1217	247	368	6.41e-35	132.0
1218	53	169	6.37e-31	121.0
1219	136	391	1.49e-93	291.0
1220	22	298	2.99e-92	288.0
1221	162	419	3.15e-92	288.0
1222	330	587	4.73e-92	288.0
1223	218	475	3.74e-91	285.0
1224	80	335	8.90e-91	284.0
1225	198	503	3.70e-90	283.0
1226	106	379	6.59e-90	282.0
1227	274	531	2.48e-89	280.0
1228	293	559	7.08e-89	279.0
1229	1	251	6.52e-87	274.0
1230	358	590	4.03e-81	259.0
1231	1	211	7.74e-63	211.0
1232	255	524	1.88e-93	289.0
1233	213	466	1.45e-92	287.0
1234	118	384	4.13e-92	286.0
1235	138	410	4.70e-92	286.0
1236	183	440	4.70e-92	286.0
1237	239	496	5.82e-92	285.0
1238	295	527	1.88e-88	276.0

1239	101	356	4.48e-86	270.0
1240	42	328	1.52e-79	253.0
1241	120	387	2.06e-93	286.0
1242	128	410	2.32e-92	283.0
1243	74	331	3.46e-88	272.0
1244	104	359	2.22e-87	270.0
1245	45	303	3.07e-84	262.0
1246	41	275	1.63e-72	232.0
1247	120	387	2.06e-93	286.0
1248	128	410	2.32e-92	283.0
1249	74	331	3.46e-88	272.0
1250	104	359	2.22e-87	270.0
1251	45	303	3.07e-84	262.0
1252	41	275	1.63e-72	232.0
1253	120	387	2.06e-93	286.0
1254	128	410	2.32e-92	283.0
1255	74	331	3.46e-88	272.0
1256	104	359	2.22e-87	270.0
1257	45	303	3.07e-84	262.0
1258	41	275	1.63e-72	232.0
1259	120	387	2.06e-93	286.0
1260	128	410	2.32e-92	283.0
1261	74	331	3.46e-88	272.0
1262	104	359	2.22e-87	270.0
1263	45	303	3.07e-84	262.0
1264	41	275	1.63e-72	232.0
1265	120	387	2.06e-93	286.0
1266	128	410	2.32e-92	283.0
1267	74	331	3.46e-88	272.0
1268	104	359	2.22e-87	270.0
1269	45	303	3.07e-84	262.0
1270	41	275	1.63e-72	232.0
1271	120	387	2.06e-93	286.0
1272	128	410	2.32e-92	283.0
1273	74	331	3.46e-88	272.0
1274	104	359	2.22e-87	270.0
1275	45	303	3.07e-84	262.0
1276	41	275	1.63e-72	232.0
1277	120	387	2.06e-93	286.0
1278	128	410	2.32e-92	283.0
1279	74	331	3.46e-88	272.0
1280	104	359	2.22e-87	270.0
1281	45	303	3.07e-84	262.0

1282	41	275	1.63e-72	232.0
1283	120	387	2.06e-93	286.0
1284	128	410	2.32e-92	283.0
1285	74	331	3.46e-88	272.0
1286	104	359	2.22e-87	270.0
1287	45	303	3.07e-84	262.0
1288	41	275	1.63e-72	232.0
1289	120	387	2.06e-93	286.0
1290	128	410	2.32e-92	283.0
1291	74	331	3.46e-88	272.0
1292	104	359	2.22e-87	270.0
1293	45	303	3.07e-84	262.0
1294	41	275	1.63e-72	232.0
1295	120	387	2.06e-93	286.0
1296	128	410	2.32e-92	283.0
1297	74	331	3.46e-88	272.0
1298	104	359	2.22e-87	270.0
1299	45	303	3.07e-84	262.0
1300	41	275	1.63e-72	232.0
1301	120	387	2.06e-93	286.0
1302	128	410	2.32e-92	283.0
1303	74	331	3.46e-88	272.0
1304	104	359	2.22e-87	270.0
1305	45	303	3.07e-84	262.0
1306	41	275	1.63e-72	232.0
1307	52	348	2.07e-93	284.0
1308	120	387	2.10e-93	286.0
1309	128	410	2.27e-92	283.0
1310	74	331	3.50e-88	272.0
1311	104	359	2.17e-87	270.0
1312	45	303	3.10e-84	262.0
1313	41	275	1.62e-72	232.0
1314	120	387	2.10e-93	286.0
1315	128	410	2.27e-92	283.0
1316	74	331	3.50e-88	272.0
1317	104	359	2.17e-87	270.0
1318	45	303	3.10e-84	262.0
1319	41	275	1.62e-72	232.0
1320	120	387	2.10e-93	286.0
1321	128	410	2.27e-92	283.0
1322	74	331	3.50e-88	272.0
1323	104	359	2.17e-87	270.0
1324	45	303	3.10e-84	262.0

1325	41	275	1.62e-72	232.0
1326	266	523	2.21e-93	305.0
1327	574	832	4.25e-93	304.0
1328	518	775	7.48e-92	301.0
1329	174	439	6.90e-91	298.0
1330	650	915	1.16e-90	297.0
1331	238	495	1.22e-90	297.0
1332	137	467	4.67e-90	296.0
1333	126	383	4.46e-89	293.0
1334	630	885	5.07e-89	293.0
1335	994	1279	1.70e-88	291.0
1336	742	999	3.03e-88	290.0
1337	350	607	4.70e-87	287.0
1338	770	1027	6.44e-87	287.0
1339	882	1139	1.19e-86	286.0
1340	854	1111	1.75e-86	286.0
1341	378	633	3.58e-86	285.0
1342	1164	1419	5.79e-86	284.0
1343	425	695	6.14e-86	284.0
1344	1108	1363	1.57e-85	283.0
1345	324	579	2.42e-85	282.0
1346	406	661	3.28e-85	282.0
1347	817	1083	3.34e-85	282.0
1348	910	1167	4.14e-85	281.0
1349	490	747	4.99e-85	281.0
1350	714	972	9.33e-85	281.0
1351	462	735	1.07e-84	280.0
1352	98	355	2.04e-84	280.0
1353	1078	1335	5.87e-84	278.0
1354	798	1053	1.89e-83	277.0
1355	938	1195	3.37e-83	276.0
1356	1134	1391	3.03e-82	273.0
1357	968	1224	3.40e-82	273.0
1358	1192	1422	8.21e-78	261.0
1359	50	327	3.35e-76	256.0
1360	1218	1421	1.05e-62	218.0
1361	1265	1422	1.28e-42	159.0
1362	266	523	2.21e-93	305.0
1363	574	832	4.25e-93	304.0
1364	518	775	7.48e-92	301.0
1365	174	439	6.90e-91	298.0
1366	650	915	1.16e-90	297.0
1367	238	495	1.22e-90	297.0

1368	137	467	4.67e-90	296.0
1369	126	383	4.46e-89	293.0
1370	630	885	5.07e-89	293.0
1371	994	1279	1.70e-88	291.0
1372	742	999	3.03e-88	290.0
1373	350	607	4.70e-87	287.0
1374	770	1027	6.44e-87	287.0
1375	882	1139	1.19e-86	286.0
1376	854	1111	1.75e-86	286.0
1377	378	633	3.58e-86	285.0
1378	1164	1419	5.79e-86	284.0
1379	425	695	6.14e-86	284.0
1380	1108	1363	1.57e-85	283.0
1381	324	579	2.42e-85	282.0
1382	406	661	3.28e-85	282.0
1383	817	1083	3.34e-85	282.0
1384	910	1167	4.14e-85	281.0
1385	490	747	4.99e-85	281.0
1386	714	972	9.33e-85	281.0
1387	462	735	1.07e-84	280.0
1388	98	355	2.04e-84	280.0
1389	1078	1335	5.87e-84	278.0
1390	798	1053	1.89e-83	277.0
1391	938	1195	3.37e-83	276.0
1392	1134	1391	3.03e-82	273.0
1393	968	1224	3.40e-82	273.0
1394	1192	1422	8.21e-78	261.0
1395	50	327	3.35e-76	256.0
1396	1218	1421	1.05e-62	218.0
1397	1265	1422	1.28e-42	159.0
1398	117	375	2.28e-93	305.0
1399	621	878	1.63e-90	296.0
1400	369	626	2.81e-89	293.0
1401	651	906	5.15e-89	292.0
1402	565	823	7.36e-89	292.0
1403	492	794	9.62e-89	291.0
1404	341	598	1.10e-88	291.0
1405	173	430	2.17e-88	291.0
1406	593	850	2.73e-87	288.0
1407	257	514	4.99e-87	287.0
1408	81	347	3.09e-85	282.0
1409	313	570	3.80e-85	281.0
1410	425	683	5.26e-85	281.0

1411	229	486	1.65e-84	280.0
1412	455	710	1.95e-84	280.0
1413	509	767	2.81e-84	279.0
1414	481	738	3.04e-84	279.0
1415	203	458	1.86e-83	277.0
1416	1009	1266	5.98e-83	275.0
1417	707	990	6.72e-83	275.0
1418	1017	1294	1.18e-81	271.0
1419	884	1198	1.93e-81	271.0
1420	53	321	2.80e-81	271.0
1421	953	1210	3.40e-81	270.0
1422	752	1014	1.22e-80	269.0
1423	677	926	1.52e-80	268.0
1424	1065	1326	1.31e-79	266.0
1425	981	1233	6.25e-78	261.0
1426	845	1154	2.23e-74	251.0
1427	66	306	4.35e-72	244.0
1428	1216	1492	2.37e-93	306.0
1429	148	403	1.83e-91	300.0
1430	174	450	1.01e-90	298.0
1431	60	362	1.49e-88	292.0
1432	594	855	1.54e-88	292.0
1433	202	463	2.77e-88	291.0
1434	631	926	3.63e-88	291.0
1435	566	823	2.67e-87	288.0
1436	230	485	5.14e-87	288.0
1437	622	874	7.78e-87	287.0
1438	538	795	8.32e-87	287.0
1439	1137	1449	1.46e-86	286.0
1440	1272	1529	3.67e-86	285.0
1441	1244	1501	4.67e-86	285.0
1442	902	1163	9.17e-86	284.0
1443	278	586	1.20e-85	284.0
1444	510	767	1.24e-85	283.0
1445	846	1103	2.10e-85	283.0
1446	414	699	2.25e-85	283.0
1447	1468	1725	2.52e-85	283.0
1448	734	995	3.03e-85	283.0
1449	1300	1558	3.34e-85	282.0
1450	818	1075	5.83e-85	281.0
1451	877	1131	8.01e-85	281.0
1452	22	319	9.26e-85	281.0
1453	1126	1436	1.63e-84	280.0

1454	370	625	1.93e-84	280.0
1455	790	1066	5.00e-84	279.0
1456	238	516	8.17e-84	278.0
1457	1014	1293	1.57e-83	278.0
1458	678	980	4.08e-83	276.0
1459	1328	1585	8.00e-83	275.0
1460	485	739	1.32e-81	272.0
1461	1440	1697	9.21e-81	270.0
1462	342	599	1.12e-80	269.0
1463	921	1193	3.98e-80	268.0
1464	1412	1669	1.59e-76	257.0
1465	1384	1641	3.69e-75	253.0
1466	1608	1757	4.09e-45	167.0
1467	32	290	2.55e-93	288.0
1468	115	401	4.87e-93	287.0
1469	200	485	4.05e-90	280.0
1470	88	345	4.98e-89	277.0
1471	5	262	1.22e-86	271.0
1472	60	317	2.25e-86	270.0
1473	1	248	2.35e-81	257.0
1474	133	390	2.65e-93	287.0
1475	21	278	3.90e-93	287.0
1476	217	471	4.95e-93	286.0
1477	107	362	1.71e-92	285.0
1478	77	334	1.60e-91	283.0
1479	49	306	1.07e-89	278.0
1480	191	446	3.95e-88	274.0
1481	3	250	2.04e-85	267.0
1482	1	222	2.52e-76	243.0
1483	385	655	2.76e-93	293.0
1484	313	589	7.31e-92	290.0
1485	145	402	6.27e-90	285.0
1486	229	486	1.20e-89	284.0
1487	285	542	3.77e-89	283.0
1488	369	626	1.17e-88	281.0
1489	89	346	2.32e-88	281.0
1490	201	477	4.76e-88	280.0
1491	173	428	9.49e-88	279.0
1492	117	374	7.04e-87	277.0
1493	257	514	8.84e-84	269.0
1494	66	318	1.17e-79	258.0
1495	408	687	1.51e-78	255.0
1496	584	689	1.32e-20	94.4

1497	81	353	2.91e-93	284.0
1498	25	325	1.75e-86	266.0
1499	145	378	3.71e-78	245.0
1500	68	294	1.01e-77	244.0
1501	79	355	2.94e-93	287.0
1502	135	392	9.82e-91	281.0
1503	163	420	2.88e-90	280.0
1504	219	476	1.12e-85	268.0
1505	182	446	7.71e-85	266.0
1506	247	480	6.80e-78	248.0
1507	57	252	1.08e-58	198.0
1508	52	194	1.13e-39	147.0
1509	58	113	1.69e-09	60.5
1510	230	514	2.98e-93	306.0
1511	4000	4261	5.80e-93	305.0
1512	1490	1747	1.06e-92	304.0
1513	1266	1523	1.76e-92	303.0
1514	1350	1607	8.45e-92	301.0
1515	3914	4188	3.42e-91	300.0
1516	3970	4229	6.27e-91	299.0
1517	341	617	1.51e-90	298.0
1518	397	654	1.74e-90	298.0
1519	313	570	1.77e-90	298.0
1520	3047	3304	3.95e-90	296.0
1521	3300	3588	5.22e-90	296.0
1522	2851	3108	1.84e-89	295.0
1523	2683	2943	2.51e-89	294.0
1524	229	502	3.48e-89	294.0
1525	3299	3556	4.34e-89	294.0
1526	2646	2912	4.65e-89	293.0
1527	2543	2804	7.24e-89	293.0
1528	2759	3024	8.69e-89	293.0
1529	481	738	9.38e-89	293.0
1530	3243	3500	2.23e-88	291.0
1531	3103	3364	2.87e-88	291.0
1532	453	710	3.35e-88	291.0
1533	2823	3080	5.52e-88	290.0
1534	1182	1439	1.02e-87	290.0
1535	5088	5345	1.05e-87	290.0
1536	1462	1719	1.15e-87	290.0
1537	3131	3386	1.19e-87	290.0
1538	425	682	1.43e-87	289.0
1539	2963	3220	3.10e-87	288.0

1540	3187	3444	3.58e-87	288.0
1541	3159	3417	5.16e-87	288.0
1542	1406	1663	5.90e-87	288.0
1543	529	794	9.83e-87	287.0
1544	2347	2604	1.43e-86	286.0
1545	3019	3280	1.82e-86	286.0
1546	2487	2744	2.84e-86	286.0
1547	3259	3547	3.21e-86	285.0
1548	2907	3164	3.50e-86	285.0
1549	1434	1707	3.57e-86	285.0
1550	5172	5427	7.28e-86	285.0
1551	5004	5261	8.83e-86	284.0
1552	2571	2828	1.02e-85	284.0
1553	2403	2660	1.35e-85	284.0
1554	2991	3248	1.44e-85	283.0
1555	2375	2632	1.72e-85	283.0
1556	1554	1831	1.84e-85	283.0
1557	2596	2884	2.02e-85	283.0
1558	4948	5206	5.14e-85	282.0
1559	4224	4509	5.77e-85	282.0
1560	1238	1511	6.54e-85	281.0
1561	1322	1579	9.16e-85	281.0
1562	565	822	9.52e-85	281.0
1563	117	418	1.40e-84	281.0
1564	2937	3192	1.56e-84	281.0
1565	1201	1467	1.60e-84	281.0
1566	4058	4314	1.68e-84	280.0
1567	173	430	1.80e-84	280.0
1568	4613	4869	1.87e-84	280.0
1569	621	878	2.20e-84	280.0
1570	3690	3966	2.33e-84	280.0
1571	2515	2772	2.40e-84	280.0
1572	4892	5149	2.97e-84	280.0
1573	2795	3052	2.99e-84	280.0
1574	201	458	3.05e-84	280.0
1575	1518	1773	3.11e-84	280.0
1576	5060	5336	3.23e-84	280.0
1577	5116	5374	8.31e-84	278.0
1578	509	766	8.55e-84	278.0
1579	5032	5289	1.02e-83	278.0
1580	4922	5177	1.06e-83	278.0
1581	2253	2520	1.13e-83	278.0
1582	2711	2968	2.56e-83	277.0

1583	2151	2427	2.66e-83	277.0
1584	2321	2576	3.11e-83	277.0
1585	4778	5065	3.52e-83	277.0
1586	2123	2380	5.98e-83	276.0
1587	2281	2548	6.21e-83	276.0
1588	5255	5541	8.62e-83	276.0
1589	4504	4785	1.14e-82	275.0
1590	649	909	1.23e-82	275.0
1591	593	850	1.37e-82	275.0
1592	2422	2704	1.90e-82	275.0
1593	2459	2716	2.15e-82	275.0
1594	3355	3607	2.51e-82	274.0
1595	5144	5399	2.51e-82	274.0
1596	2199	2464	2.71e-82	274.0
1597	5200	5455	3.07e-82	274.0
1598	33	290	3.98e-82	274.0
1599	5228	5485	5.47e-82	273.0
1600	2227	2508	8.52e-82	273.0
1601	817	1133	1.08e-81	272.0
1602	3718	3975	1.26e-81	272.0
1603	3746	4006	1.34e-81	272.0
1604	4168	4453	2.34e-81	271.0
1605	4104	4397	2.81e-81	271.0
1606	4011	4339	3.06e-81	271.0
1607	3598	3863	3.21e-81	271.0
1608	89	346	4.13e-81	271.0
1609	1099	1383	1.44e-80	269.0
1610	5283	5565	1.94e-80	269.0
1611	1546	1801	2.64e-80	268.0
1612	3466	3755	4.94e-80	268.0
1613	1630	1885	5.71e-80	268.0
1614	2012	2297	5.07e-79	265.0
1615	3653	3919	5.86e-79	265.0
1616	1146	1411	6.21e-79	265.0
1617	4283	4532	9.12e-79	264.0
1618	3551	3854	1.19e-78	264.0
1619	4308	4562	2.65e-78	263.0
1620	2095	2352	2.78e-78	263.0
1621	5	262	5.10e-78	262.0
1622	1014	1327	6.31e-78	261.0
1623	902	1155	9.63e-78	261.0
1624	2033	2324	1.30e-77	261.0
1625	1714	1990	1.89e-77	260.0

1626	4753	5009	1.98e-77	260.0
1627	4855	5121	6.53e-77	259.0
1628	1658	1913	1.14e-76	258.0
1629	1742	1997	1.75e-75	254.0
1630	5340	5618	2.75e-75	254.0
1631	3634	3891	3.64e-75	254.0
1632	1772	2027	2.51e-74	251.0
1633	1826	2098	7.03e-74	250.0
1634	1798	2051	2.90e-72	245.0
1635	5368	5624	4.25e-70	239.0
1636	138	399	3.41e-93	286.0
1637	194	448	8.92e-93	285.0
1638	166	421	4.81e-92	283.0
1639	113	365	3.18e-91	281.0
1640	112	337	7.24e-80	252.0
1641	138	399	3.41e-93	286.0
1642	194	448	8.92e-93	285.0
1643	166	421	4.81e-92	283.0
1644	113	365	3.18e-91	281.0
1645	112	337	7.24e-80	252.0
1646	79	336	3.44e-93	284.0
1647	107	362	1.57e-92	283.0
1648	42	306	1.03e-90	278.0
1649	126	388	4.91e-90	276.0
1650	56	252	2.39e-66	215.0
1651	247	393	1.56e-44	158.0
1652	399	656	4.14e-93	301.0
1653	455	712	9.14e-93	300.0
1654	735	992	7.35e-92	297.0
1655	595	852	8.58e-92	297.0
1656	539	796	1.68e-90	294.0
1657	567	824	2.72e-90	293.0
1658	649	936	5.03e-90	292.0
1659	313	600	5.19e-90	292.0
1660	483	740	7.66e-90	292.0
1661	623	880	1.40e-88	288.0
1662	287	544	3.14e-88	288.0
1663	259	516	9.67e-88	286.0
1664	145	404	1.03e-85	281.0
1665	5	262	1.27e-83	275.0
1666	229	488	2.14e-82	271.0
1667	819	1074	1.01e-81	270.0
1668	1	238	1.37e-81	270.0

1669	791	1049	5.32e-80	265.0
1670	10	297	4.26e-93	281.0
1671	58	298	3.14e-86	263.0
1672	76	346	5.04e-93	300.0
1673	229	486	3.90e-92	298.0
1674	397	654	2.40e-91	296.0
1675	201	458	2.45e-91	296.0
1676	341	598	2.63e-91	296.0
1677	285	542	2.69e-91	296.0
1678	164	430	8.23e-91	295.0
1679	313	570	1.01e-90	294.0
1680	14	306	1.11e-89	291.0
1681	117	374	1.45e-89	291.0
1682	145	402	1.68e-89	291.0
1683	5	262	7.63e-89	289.0
1684	61	318	4.52e-88	287.0
1685	453	738	8.35e-88	286.0
1686	369	626	6.00e-87	284.0
1687	425	680	2.38e-86	282.0
1688	705	962	1.18e-82	272.0
1689	508	794	6.09e-80	265.0
1690	725	984	2.04e-78	261.0
1691	1	234	2.15e-78	261.0
1692	816	1070	2.53e-78	260.0
1693	843	1070	1.51e-59	208.0
1694	1	166	1.25e-49	179.0
1695	303	580	5.17e-93	300.0
1696	230	496	4.88e-92	298.0
1697	351	608	4.88e-92	298.0
1698	248	524	2.85e-90	293.0
1699	295	552	2.32e-88	288.0
1700	211	468	2.88e-87	285.0
1701	379	638	2.00e-86	282.0
1702	717	975	4.77e-86	281.0
1703	183	456	8.63e-86	281.0
1704	791	1058	4.20e-85	279.0
1705	118	384	4.74e-85	279.0
1706	138	412	4.84e-85	279.0
1707	519	806	1.82e-84	277.0
1708	603	862	1.22e-82	272.0
1709	745	1030	1.63e-82	272.0
1710	101	356	2.69e-82	271.0
1711	661	918	6.47e-80	265.0

1712	689	946	1.05e-79	264.0
1713	829	1061	1.97e-76	255.0
1714	42	328	3.50e-76	254.0
1715	45	245	8.31e-45	166.0
1716	247	511	5.52e-93	292.0
1717	330	597	3.42e-90	285.0
1718	230	485	5.77e-89	282.0
1719	368	621	2.37e-88	280.0
1720	163	429	2.84e-88	280.0
1721	114	373	1.50e-87	278.0
1722	282	542	4.04e-87	277.0
1723	314	570	4.59e-87	277.0
1724	192	457	6.04e-86	274.0
1725	78	345	1.49e-85	273.0
1726	142	401	3.08e-84	270.0
1727	40	317	1.80e-83	268.0
1728	396	671	7.06e-83	266.0
1729	443	678	4.39e-68	227.0
1730	65	206	1.12e-40	152.0
1731	65	110	2.40e-02	38.1
1732	204	461	6.93e-93	295.0
1733	146	406	4.80e-92	292.0
1734	176	433	2.04e-90	288.0
1735	6	281	3.14e-89	285.0
1736	232	490	5.78e-89	284.0
1737	514	771	1.48e-85	275.0
1738	260	519	5.55e-85	274.0
1739	472	743	2.24e-83	270.0
1740	1	237	2.32e-82	267.0
1741	522	774	6.86e-81	263.0
1742	121	375	7.20e-93	283.0
1743	93	348	2.12e-88	271.0
1744	26	320	1.53e-87	269.0
1745	70	267	9.81e-58	192.0
1746	116	373	7.82e-93	299.0
1747	51	317	3.22e-92	298.0
1748	564	821	6.23e-92	297.0
1749	23	305	5.10e-91	295.0
1750	592	849	7.47e-91	294.0
1751	621	905	1.22e-90	293.0
1752	144	417	1.60e-90	293.0
1753	172	448	3.12e-90	292.0
1754	676	933	4.08e-90	292.0

1755	536	809	1.45e-89	290.0
1756	601	896	3.51e-89	290.0
1757	4	277	6.30e-89	289.0
1758	508	765	1.06e-88	288.0
1759	248	513	2.68e-88	287.0
1760	480	738	3.92e-88	286.0
1761	200	457	4.82e-88	286.0
1762	275	541	1.77e-87	285.0
1763	79	345	2.34e-87	285.0
1764	430	728	1.80e-86	282.0
1765	359	625	1.05e-85	280.0
1766	219	483	1.54e-84	277.0
1767	415	681	2.20e-83	274.0
1768	3	233	1.52e-80	266.0
1769	732	1014	4.46e-80	265.0
1770	760	1018	3.27e-71	240.0
1771	2	205	1.42e-68	233.0
1772	1	81	1.68e-17	85.5
1773	958	1019	9.92e-12	67.8
1774	52	319	1.04e-92	281.0
1775	89	320	3.44e-83	256.0
1776	49	322	2.91e-81	251.0
1777	145	323	3.74e-59	194.0
1778	81	347	1.04e-92	282.0
1779	117	372	8.82e-85	262.0
1780	24	319	5.31e-84	260.0
1781	181	372	4.23e-51	175.0
1782	89	344	1.07e-92	281.0
1783	52	316	5.95e-89	272.0
1784	105	345	3.46e-76	239.0
1785	63	250	2.79e-55	185.0
1786	120	387	1.10e-92	285.0
1787	128	410	8.92e-91	280.0
1788	104	359	1.34e-87	272.0
1789	74	331	2.37e-86	269.0
1790	47	304	3.05e-83	261.0
1791	41	275	7.56e-73	234.0
1792	40	79	4.90e-01	33.9
1793	173	428	1.11e-92	290.0
1794	313	568	2.84e-91	286.0
1795	247	512	1.65e-89	282.0
1796	117	372	2.28e-86	274.0
1797	369	628	6.81e-86	273.0

1798	24	316	2.17e-85	271.0
1799	145	400	5.43e-85	270.0
1800	189	505	7.23e-85	270.0
1801	81	344	1.36e-83	267.0
1802	63	262	1.09e-58	201.0
1803	25	316	1.48e-92	283.0
1804	81	344	2.39e-91	280.0
1805	117	369	6.00e-91	279.0
1806	145	402	6.99e-75	238.0
1807	76	331	1.50e-92	284.0
1808	10	277	1.12e-91	282.0
1809	132	406	4.05e-91	280.0
1810	2	249	2.65e-90	278.0
1811	48	305	4.65e-90	278.0
1812	162	415	1.42e-87	271.0
1813	1	221	5.74e-73	234.0
1814	217	415	4.14e-66	216.0
1815	244	415	4.95e-56	189.0
1816	274	423	1.86e-38	143.0
1817	357	423	2.99e-15	77.8
1818	1	72	8.83e-10	61.2
1819	19	271	1.60e-92	278.0
1820	19	274	3.02e-80	247.0
1821	98	275	9.27e-57	187.0
1822	5	188	1.41e-56	186.0
1823	32	306	1.69e-92	300.0
1824	562	819	1.07e-91	298.0
1825	114	371	2.14e-90	294.0
1826	58	334	8.92e-90	292.0
1827	310	567	6.12e-89	290.0
1828	86	343	8.82e-89	290.0
1829	142	400	1.35e-88	289.0
1830	394	651	1.82e-88	289.0
1831	469	735	6.06e-87	285.0
1832	590	847	6.19e-87	285.0
1833	534	791	1.41e-86	283.0
1834	450	707	2.18e-86	283.0
1835	618	875	3.62e-86	282.0
1836	786	1043	1.45e-85	281.0
1837	646	900	1.71e-85	281.0
1838	814	1071	1.79e-85	281.0
1839	506	763	3.04e-85	280.0
1840	758	1035	3.09e-84	277.0

1841	842	1093	3.97e-84	277.0
1842	674	947	4.63e-84	276.0
1843	366	623	6.14e-84	276.0
1844	226	509	6.46e-84	276.0
1845	1	259	1.06e-83	276.0
1846	702	987	6.59e-83	273.0
1847	198	483	6.38e-82	271.0
1848	262	539	3.17e-81	269.0
1849	4	250	6.82e-75	251.0
1850	95	350	1.71e-92	283.0
1851	67	322	3.21e-90	277.0
1852	2	294	1.16e-85	265.0
1853	123	365	9.05e-80	250.0
1854	33	337	1.84e-92	281.0
1855	143	397	2.16e-92	287.0
1856	69	342	7.05e-92	285.0
1857	115	370	1.65e-91	285.0
1858	169	429	3.90e-83	263.0
1859	227	511	6.84e-81	257.0
1860	199	450	1.73e-80	256.0
1861	493	536	2.80e-02	37.7
1862	143	397	2.16e-92	287.0
1863	69	342	7.05e-92	285.0
1864	115	370	1.65e-91	285.0
1865	169	429	3.90e-83	263.0
1866	227	511	6.84e-81	257.0
1867	199	450	1.73e-80	256.0
1868	493	536	2.80e-02	37.7
1869	143	397	2.16e-92	287.0
1870	69	342	7.05e-92	285.0
1871	115	370	1.65e-91	285.0
1872	169	429	3.90e-83	263.0
1873	227	511	6.84e-81	257.0
1874	199	450	1.73e-80	256.0
1875	493	536	2.80e-02	37.7
1876	1074	1377	2.23e-92	302.0
1877	933	1191	2.63e-90	296.0
1878	1045	1306	1.45e-88	291.0
1879	361	645	2.59e-88	291.0
1880	869	1162	3.06e-88	290.0
1881	989	1246	4.19e-88	290.0
1882	1129	1386	7.57e-88	289.0
1883	961	1219	1.55e-87	288.0

1884	1017	1278	4.24e-87	287.0
1885	793	1050	4.54e-87	287.0
1886	877	1135	6.60e-87	286.0
1887	1073	1330	2.69e-86	285.0
1888	52	318	1.37e-85	283.0
1889	285	587	9.39e-85	281.0
1890	342	602	1.15e-84	280.0
1891	813	1078	2.60e-84	279.0
1892	89	363	2.71e-84	279.0
1893	849	1125	5.01e-84	278.0
1894	681	966	6.22e-81	270.0
1895	566	857	1.56e-79	266.0
1896	625	882	3.54e-79	265.0
1897	493	798	3.69e-78	262.0
1898	765	1022	7.86e-78	261.0
1899	173	430	2.51e-92	288.0
1900	229	486	3.65e-92	287.0
1901	257	512	1.45e-91	286.0
1902	285	542	2.08e-90	283.0
1903	89	346	2.34e-90	283.0
1904	117	374	2.96e-89	280.0
1905	313	570	5.22e-89	279.0
1906	145	402	6.75e-89	279.0
1907	9	318	1.38e-88	278.0
1908	174	458	1.68e-88	278.0
1909	341	573	9.60e-85	268.0
1910	109	363	2.55e-92	281.0
1911	81	336	2.14e-89	273.0
1912	14	308	4.24e-88	270.0
1913	58	255	2.28e-57	191.0
1914	79	334	2.64e-92	283.0
1915	56	306	2.13e-90	278.0
1916	116	390	5.68e-88	272.0
1917	107	362	9.43e-88	271.0
1918	56	224	4.36e-60	200.0
1919	228	418	2.43e-51	177.0
1920	111	365	3.61e-92	282.0
1921	56	310	1.57e-91	280.0
1922	84	340	2.80e-90	277.0
1923	50	254	1.10e-65	214.0
1924	404	670	3.66e-92	291.0
1925	329	586	7.00e-89	283.0
1926	357	614	3.02e-88	281.0

1927	385	642	4.01e-88	281.0
1928	301	558	2.61e-87	279.0
1929	441	698	1.56e-86	276.0
1930	123	390	2.64e-84	271.0
1931	207	474	4.97e-84	270.0
1932	275	546	2.44e-83	268.0
1933	469	718	1.33e-82	266.0
1934	161	418	3.51e-82	265.0
1935	245	502	1.30e-81	264.0
1936	82	332	1.65e-78	256.0
1937	81	269	3.08e-44	163.0
1938	73	219	1.15e-34	135.0
1939	380	654	3.95e-92	302.0
1940	481	738	6.86e-92	301.0
1941	593	850	1.13e-90	298.0
1942	621	878	1.08e-89	295.0
1943	565	822	1.18e-89	295.0
1944	537	810	1.04e-88	292.0
1945	1226	1517	2.22e-88	291.0
1946	117	375	2.62e-88	291.0
1947	657	933	1.17e-87	290.0
1948	1335	1632	1.29e-87	289.0
1949	453	710	1.38e-87	289.0
1950	1198	1462	3.98e-87	288.0
1951	25	318	6.03e-87	287.0
1952	408	682	6.52e-87	287.0
1953	638	906	2.69e-86	285.0
1954	1143	1408	3.96e-86	285.0
1955	192	459	1.53e-84	280.0
1956	81	344	1.79e-84	280.0
1957	1179	1436	5.21e-84	279.0
1958	873	1133	2.23e-83	277.0
1959	1096	1380	5.37e-83	276.0
1960	276	570	7.24e-83	276.0
1961	257	514	1.11e-82	275.0
1962	344	599	1.66e-81	272.0
1963	1271	1576	2.07e-81	271.0
1964	1011	1324	8.19e-81	270.0
1965	1403	1688	2.62e-79	265.0
1966	893	1152	2.26e-78	263.0
1967	1459	1690	7.04e-61	212.0
1968	66	238	2.99e-53	190.0
1969	1543	1691	1.42e-41	156.0

1970	82	332	7.59e-92	283.0
1971	161	437	7.26e-87	270.0
1972	170	445	1.57e-81	256.0
1973	133	386	5.14e-81	255.0
1974	81	248	4.56e-50	174.0
1975	79	220	1.33e-40	149.0
1976	210	487	7.97e-92	297.0
1977	174	432	3.11e-88	288.0
1978	118	379	2.59e-86	282.0
1979	398	653	3.66e-86	282.0
1980	193	459	6.67e-86	281.0
1981	316	568	2.53e-85	280.0
1982	370	646	7.53e-85	278.0
1983	90	347	2.77e-84	277.0
1984	39	291	3.36e-84	276.0
1985	62	319	8.39e-84	275.0
1986	426	673	4.57e-82	271.0
1987	727	993	2.70e-78	260.0
1988	764	1025	4.55e-78	260.0
1989	594	882	2.46e-66	227.0
1990	473	786	1.95e-62	216.0
1991	39	236	5.48e-58	203.0
1992	39	183	9.81e-39	148.0
1993	960	1065	3.27e-09	60.1
1994	191	448	8.01e-92	295.0
1995	527	784	4.24e-91	293.0
1996	499	756	2.07e-90	291.0
1997	303	558	3.57e-89	288.0
1998	98	368	4.31e-89	288.0
1999	387	644	2.52e-88	285.0
2000	69	334	4.10e-88	285.0
2001	669	924	1.03e-87	284.0
2002	135	390	8.49e-87	281.0
2003	443	700	1.33e-86	281.0
2004	247	504	1.77e-86	281.0
2005	583	840	2.27e-86	280.0
2006	555	812	3.01e-86	280.0
2007	613	868	6.55e-86	279.0
2008	219	477	7.26e-86	279.0
2009	163	420	1.13e-85	278.0
2010	473	729	2.85e-85	277.0
2011	275	532	3.50e-85	277.0
2012	639	896	8.83e-84	273.0

2013	359	616	1.42e-83	273.0
2014	53	308	1.62e-83	273.0
2015	697	928	1.58e-79	262.0
2016	723	926	3.53e-63	217.0
2017	770	927	1.20e-42	159.0
2018	807	928	2.84e-33	132.0
2019	91	344	8.06e-92	279.0
2020	52	316	1.26e-88	271.0
2021	48	290	2.96e-86	265.0
2022	117	344	2.12e-81	253.0
2023	149	404	9.86e-92	286.0
2024	177	432	1.25e-88	278.0
2025	121	376	3.76e-88	276.0
2026	205	461	6.92e-88	276.0
2027	93	348	2.40e-86	272.0
2028	261	514	2.13e-85	270.0
2029	55	320	1.66e-84	267.0
2030	224	488	4.46e-83	263.0
2031	42	292	1.88e-77	249.0
2032	273	537	2.12e-74	241.0
2033	38	236	4.46e-59	201.0
2034	401	539	3.79e-32	127.0
2035	43	170	5.26e-30	121.0
2036	619	895	9.93e-92	299.0
2037	657	935	3.57e-89	292.0
2038	593	850	8.79e-89	291.0
2039	201	458	1.23e-88	291.0
2040	733	988	2.18e-88	290.0
2041	565	822	3.49e-88	290.0
2042	789	1065	5.15e-88	289.0
2043	817	1074	8.66e-88	288.0
2044	649	906	1.09e-87	288.0
2045	324	630	1.58e-87	288.0
2046	285	542	1.83e-87	287.0
2047	707	962	1.94e-87	287.0
2048	248	514	2.19e-87	287.0
2049	761	1018	1.22e-86	285.0
2050	509	766	1.24e-86	285.0
2051	845	1106	2.05e-86	285.0
2052	229	486	4.63e-86	283.0
2053	313	570	4.72e-86	283.0
2054	537	794	2.28e-85	281.0
2055	397	698	4.13e-85	281.0

2056	175	449	7.14e-85	280.0
2057	137	418	1.93e-84	279.0
2058	984	1269	2.84e-84	278.0
2059	453	710	3.17e-84	278.0
2060	69	344	8.16e-82	272.0
2061	61	318	1.08e-81	271.0
2062	108	374	5.66e-81	269.0
2063	873	1125	7.74e-80	266.0
2064	23	290	1.17e-78	263.0
2065	7	262	5.23e-72	244.0
2066	1	234	9.37e-69	235.0
2067	1069	1271	2.32e-61	213.0
2068	1116	1272	7.93e-42	157.0
2069	43	307	1.20e-91	278.0
2070	80	332	8.11e-88	269.0
2071	136	335	1.71e-69	222.0
2072	52	316	1.23e-91	278.0
2073	80	321	1.99e-85	262.0
2074	66	206	5.01e-48	166.0
2075	115	428	1.26e-91	284.0
2076	200	484	1.85e-89	279.0
2077	247	512	3.35e-89	278.0
2078	5	261	4.17e-85	267.0
2079	1	237	5.91e-81	257.0
2080	274	515	1.11e-75	243.0
2081	132	387	1.33e-91	285.0
2082	160	415	1.67e-88	277.0
2083	104	359	5.04e-88	276.0
2084	188	444	9.60e-88	275.0
2085	76	331	3.44e-86	271.0
2086	244	497	2.84e-85	269.0
2087	38	303	2.20e-84	266.0
2088	207	471	5.22e-83	263.0
2089	25	275	2.38e-77	248.0
2090	256	520	2.54e-74	240.0
2091	21	219	5.16e-59	200.0
2092	384	522	4.75e-32	127.0
2093	26	153	6.25e-30	121.0
2094	57	309	1.42e-91	279.0
2095	80	335	2.67e-91	278.0
2096	108	336	1.49e-77	243.0
2097	165	338	1.85e-41	149.0
2098	44	318	1.43e-91	278.0

2099	89	320	1.43e-86	265.0
2100	66	294	1.18e-75	237.0
2101	192	458	1.52e-91	295.0
2102	229	486	7.07e-90	290.0
2103	369	626	1.76e-89	289.0
2104	313	570	4.25e-89	288.0
2105	80	346	7.59e-89	287.0
2106	285	542	2.07e-88	286.0
2107	108	374	2.50e-88	286.0
2108	397	653	4.70e-88	285.0
2109	5	266	6.57e-87	282.0
2110	257	514	3.06e-86	280.0
2111	136	402	9.81e-85	276.0
2112	341	617	1.34e-84	276.0
2113	173	430	3.95e-84	275.0
2114	585	850	1.12e-83	273.0
2115	61	318	1.76e-83	273.0
2116	23	290	7.27e-83	271.0
2117	1	234	1.75e-80	265.0
2118	621	872	5.76e-79	261.0
2119	704	958	1.64e-78	259.0
2120	730	958	7.55e-60	208.0
2121	309	571	1.55e-91	286.0
2122	337	593	2.82e-89	280.0
2123	281	558	1.32e-88	279.0
2124	253	510	1.37e-88	279.0
2125	173	482	1.15e-86	274.0
2126	5	262	1.01e-84	268.0
2127	1	234	1.24e-74	242.0
2128	3	233	7.26e-74	240.0
2129	1	166	2.65e-43	159.0
2130	353	627	1.69e-91	296.0
2131	61	319	4.10e-91	295.0
2132	426	699	8.02e-91	294.0
2133	342	599	4.09e-90	292.0
2134	480	758	4.67e-90	291.0
2135	538	793	1.42e-89	290.0
2136	566	823	1.53e-89	290.0
2137	582	851	1.53e-89	290.0
2138	202	460	2.81e-89	290.0
2139	314	572	6.80e-89	288.0
2140	258	515	7.94e-88	286.0
2141	622	879	2.90e-87	284.0

2142	650	907	3.56e-87	284.0
2143	230	487	4.60e-87	284.0
2144	678	935	5.26e-87	283.0
2145	173	429	8.52e-87	283.0
2146	734	991	2.33e-86	282.0
2147	385	655	2.95e-86	281.0
2148	510	767	9.30e-86	280.0
2149	286	543	1.06e-85	280.0
2150	762	1019	1.08e-84	277.0
2151	5	263	1.10e-84	277.0
2152	697	963	4.78e-83	273.0
2153	1	235	4.38e-82	270.0
2154	790	1022	6.64e-73	245.0
2155	1155	1410	1.74e-91	300.0
2156	1099	1356	2.06e-90	297.0
2157	959	1216	3.61e-89	294.0
2158	553	856	7.18e-89	293.0
2159	89	362	1.50e-88	292.0
2160	791	1048	2.12e-88	291.0
2161	987	1244	3.37e-88	291.0
2162	651	906	3.68e-88	291.0
2163	1127	1403	7.38e-88	290.0
2164	679	936	3.53e-87	288.0
2165	628	880	1.35e-86	286.0
2166	1183	1438	1.95e-86	286.0
2167	903	1160	9.78e-86	284.0
2168	313	570	9.88e-86	284.0
2169	52	318	1.03e-85	284.0
2170	189	458	1.14e-85	284.0
2171	257	514	2.02e-85	283.0
2172	1015	1272	2.49e-85	283.0
2173	175	430	3.24e-85	282.0
2174	229	486	3.89e-85	282.0
2175	1071	1328	1.13e-84	281.0
2176	931	1188	1.42e-84	280.0
2177	1016	1301	1.87e-84	280.0
2178	145	402	2.06e-84	280.0
2179	539	824	2.53e-84	280.0
2180	117	374	3.38e-84	280.0
2181	1211	1466	5.16e-84	279.0
2182	341	599	9.75e-84	278.0
2183	735	993	1.27e-83	278.0
2184	847	1104	2.56e-83	277.0

2185	1267	1524	5.12e-83	276.0
2186	754	1020	5.27e-83	276.0
2187	707	964	5.70e-82	273.0
2188	875	1133	6.10e-82	273.0
2189	360	621	1.24e-80	269.0
2190	1239	1494	1.99e-80	269.0
2191	1323	1633	1.28e-66	229.0
2192	1379	1659	2.35e-63	219.0
2193	357	626	1.76e-91	293.0
2194	285	542	5.63e-91	291.0
2195	441	710	5.81e-91	291.0
2196	509	766	1.10e-90	291.0
2197	397	673	3.37e-90	290.0
2198	425	682	1.03e-89	288.0
2199	593	847	3.20e-88	284.0
2200	173	430	4.29e-88	284.0
2201	109	374	1.90e-87	282.0
2202	231	486	4.48e-86	279.0
2203	5	262	4.97e-86	278.0
2204	245	514	8.11e-86	278.0
2205	201	458	1.19e-85	278.0
2206	13	290	1.73e-85	277.0
2207	566	822	1.43e-84	275.0
2208	79	346	1.63e-83	272.0
2209	1	234	1.37e-70	237.0
2210	52	304	2.05e-91	280.0
2211	123	387	6.07e-80	250.0
2212	93	361	1.23e-78	247.0
2213	339	598	2.78e-91	296.0
2214	423	682	4.14e-91	296.0
2215	313	570	1.11e-87	287.0
2216	397	654	2.02e-87	286.0
2217	563	823	4.41e-87	285.0
2218	283	542	6.03e-87	285.0
2219	171	430	1.82e-86	283.0
2220	3	262	2.01e-86	283.0
2221	231	486	9.26e-86	281.0
2222	479	757	1.82e-85	281.0
2223	87	365	2.62e-85	280.0
2224	507	767	1.73e-84	278.0
2225	259	514	2.75e-84	278.0
2226	59	318	1.03e-83	276.0
2227	143	406	2.24e-83	275.0

2228	525	794	2.86e-82	272.0
2229	608	878	1.37e-81	270.0
2230	843	1138	2.85e-81	269.0
2231	1	234	1.06e-80	268.0
2232	647	940	7.80e-79	263.0
2233	2	182	4.14e-60	210.0
2234	34	303	3.06e-91	285.0
2235	53	280	1.42e-77	249.0
2236	247	541	1.54e-67	223.0
2237	210	515	5.56e-66	219.0
2238	53	225	2.19e-64	215.0
2239	273	563	2.71e-62	209.0
2240	358	563	3.27e-62	209.0
2241	34	303	3.06e-91	285.0
2242	53	280	1.42e-77	249.0
2243	247	541	1.54e-67	223.0
2244	210	515	5.56e-66	219.0
2245	53	225	2.19e-64	215.0
2246	273	563	2.71e-62	209.0
2247	358	563	3.27e-62	209.0
2248	134	391	4.17e-91	280.0
2249	94	382	1.05e-90	279.0
2250	78	354	6.15e-90	277.0
2251	22	279	1.83e-89	276.0
2252	1	251	2.76e-89	275.0
2253	150	419	3.43e-89	275.0
2254	190	422	7.40e-77	243.0
2255	1	87	1.62e-20	93.2
2256	60	315	4.21e-91	277.0
2257	23	289	6.62e-90	274.0
2258	88	316	2.72e-78	244.0
2259	145	318	1.72e-41	149.0
2260	425	682	6.79e-91	289.0
2261	397	654	1.97e-89	285.0
2262	217	484	4.68e-88	281.0
2263	313	570	2.07e-87	280.0
2264	369	626	3.62e-87	279.0
2265	341	614	1.55e-86	278.0
2266	145	406	3.59e-86	276.0
2267	274	540	9.77e-86	275.0
2268	81	346	1.96e-85	275.0
2269	257	543	2.74e-85	274.0
2270	481	733	3.64e-85	274.0

2271	201	458	4.13e-85	274.0
2272	161	428	5.61e-85	273.0
2273	509	764	8.63e-85	273.0
2274	52	316	4.33e-82	266.0
2275	537	765	3.42e-72	239.0
2276	63	250	4.56e-52	185.0
2277	245	498	1.03e-90	290.0
2278	318	584	1.72e-89	286.0
2279	523	778	3.71e-89	285.0
2280	105	360	2.01e-86	278.0
2281	215	470	3.61e-86	278.0
2282	469	720	9.27e-86	276.0
2283	336	640	2.67e-85	275.0
2284	121	386	5.93e-85	274.0
2285	431	692	7.31e-85	274.0
2286	495	752	1.52e-84	273.0
2287	271	528	2.41e-84	273.0
2288	299	556	3.91e-84	272.0
2289	401	668	8.65e-84	271.0
2290	187	444	2.85e-83	270.0
2291	607	806	1.23e-64	220.0
2292	79	246	3.73e-46	169.0
2293	64	220	1.63e-36	141.0
2294	80	211	4.72e-28	116.0
2295	14	256	1.55e-90	275.0
2296	59	314	6.82e-88	268.0
2297	87	315	1.96e-74	234.0
2298	14	202	1.56e-63	206.0
2299	16	136	1.95e-32	124.0
2300	15	64	5.19e-07	52.0
2301	92	359	1.65e-90	283.0
2302	117	385	1.62e-87	275.0
2303	158	418	9.20e-83	263.0
2304	186	439	7.11e-81	258.0
2305	65	329	5.57e-80	255.0
2306	242	500	1.89e-75	243.0
2307	258	553	1.38e-73	239.0
2308	187	472	9.74e-73	236.0
2309	80	279	2.09e-64	214.0
2310	92	359	1.65e-90	283.0
2311	117	385	1.62e-87	275.0
2312	158	418	9.20e-83	263.0
2313	186	439	7.11e-81	258.0

2314	65	329	5.57e-80	255.0
2315	242	500	1.89e-75	243.0
2316	258	553	1.38e-73	239.0
2317	187	472	9.74e-73	236.0
2318	80	279	2.09e-64	214.0
2319	21	287	2.37e-90	275.0
2320	58	313	1.78e-89	273.0
2321	86	314	9.46e-78	243.0
2322	143	316	1.49e-41	149.0
2323	1091	1365	2.45e-90	297.0
2324	1076	1333	8.58e-88	290.0
2325	321	578	1.73e-86	286.0
2326	992	1247	1.65e-85	283.0
2327	952	1221	2.34e-85	283.0
2328	293	549	3.10e-85	282.0
2329	181	457	4.74e-85	282.0
2330	237	513	7.24e-85	281.0
2331	209	466	1.58e-84	280.0
2332	1036	1324	2.13e-84	280.0
2333	1020	1277	5.49e-84	279.0
2334	684	941	5.54e-84	279.0
2335	1375	1641	1.18e-82	275.0
2336	628	885	2.02e-82	274.0
2337	1411	1669	2.06e-82	274.0
2338	153	410	2.29e-82	274.0
2339	921	1194	5.39e-82	273.0
2340	1243	1585	8.32e-82	273.0
2341	600	857	2.31e-81	271.0
2342	267	522	2.33e-81	271.0
2343	1132	1384	2.45e-81	271.0
2344	544	801	2.72e-81	271.0
2345	812	1081	6.93e-81	270.0
2346	627	913	9.23e-80	267.0
2347	900	1165	2.20e-79	266.0
2348	125	401	6.33e-79	264.0
2349	768	1025	1.37e-78	263.0
2350	572	829	2.15e-78	263.0
2351	732	997	3.01e-78	262.0
2352	880	1137	4.14e-78	262.0
2353	97	354	9.46e-78	261.0
2354	517	774	2.08e-77	260.0
2355	71	326	4.71e-74	250.0
2356	46	298	3.60e-72	245.0

2357	1430	1672	4.16e-69	236.0
2358	16	212	3.23e-41	155.0
2359	532	799	2.47e-90	293.0
2360	614	899	4.20e-90	293.0
2361	568	827	1.18e-89	291.0
2362	673	939	1.35e-89	291.0
2363	764	1023	8.82e-89	289.0
2364	456	715	1.21e-88	289.0
2365	262	519	1.29e-88	289.0
2366	234	507	2.40e-88	288.0
2367	428	687	9.31e-88	286.0
2368	598	855	1.21e-87	286.0
2369	708	967	5.26e-87	285.0
2370	316	575	8.07e-87	284.0
2371	288	547	8.32e-87	284.0
2372	736	995	1.78e-85	280.0
2373	176	433	4.57e-85	279.0
2374	512	771	5.11e-85	279.0
2375	344	603	9.12e-85	278.0
2376	400	659	9.80e-85	278.0
2377	148	407	6.34e-84	276.0
2378	204	479	4.26e-83	274.0
2379	372	631	4.26e-83	274.0
2380	792	1051	5.32e-83	273.0
2381	127	379	8.01e-82	270.0
2382	95	351	1.15e-81	270.0
2383	820	1071	1.85e-80	266.0
2384	68	323	3.01e-72	244.0
2385	6	295	1.46e-71	242.0
2386	52	240	9.18e-50	180.0
2387	947	1213	2.58e-90	296.0
2388	786	1045	1.67e-89	294.0
2389	286	539	1.62e-88	291.0
2390	897	1204	3.09e-87	287.0
2391	870	1129	3.55e-87	287.0
2392	982	1242	7.02e-87	286.0
2393	842	1101	7.90e-87	286.0
2394	43	345	1.44e-86	285.0
2395	674	933	1.56e-86	285.0
2396	142	401	1.64e-86	285.0
2397	891	1157	3.28e-86	285.0
2398	648	905	3.92e-86	284.0
2399	814	1074	7.97e-86	283.0

2400	695	961	9.42e-86	283.0
2401	30	290	1.81e-85	282.0
2402	226	489	3.17e-85	282.0
2403	758	1017	1.09e-84	280.0
2404	611	877	4.57e-84	278.0
2405	724	1005	5.30e-84	278.0
2406	198	457	3.72e-83	276.0
2407	170	429	9.64e-83	275.0
2408	332	596	1.13e-82	275.0
2409	366	640	8.27e-82	272.0
2410	590	849	9.58e-82	272.0
2411	564	837	1.10e-81	272.0
2412	1010	1264	3.14e-81	270.0
2413	422	700	4.38e-81	270.0
2414	450	709	2.08e-80	268.0
2415	534	809	2.12e-80	268.0
2416	2	261	3.35e-80	268.0
2417	394	653	2.42e-79	265.0
2418	506	781	1.22e-78	263.0
2419	1094	1350	2.25e-74	251.0
2420	1123	1350	1.24e-56	200.0
2421	1	65	4.80e-13	72.0
2422	101	356	3.80e-90	278.0
2423	78	328	1.01e-84	264.0
2424	129	382	1.15e-82	259.0
2425	185	436	1.20e-74	238.0
2426	78	302	1.49e-74	238.0
2427	77	244	5.94e-53	182.0
2428	75	216	2.02e-40	148.0
2429	121	378	4.05e-90	288.0
2430	65	322	1.85e-89	286.0
2431	9	266	2.08e-89	286.0
2432	252	518	4.38e-89	285.0
2433	149	406	4.72e-89	285.0
2434	39	295	8.97e-89	284.0
2435	319	574	3.57e-87	280.0
2436	262	546	3.80e-87	280.0
2437	205	481	5.98e-87	279.0
2438	233	490	6.16e-86	276.0
2439	403	658	2.46e-85	275.0
2440	1	238	5.70e-83	269.0
2441	430	711	4.63e-81	263.0
2442	485	787	1.39e-80	262.0

2443	569	788	2.51e-58	202.0
2444	744	788	2.00e-03	41.6
2445	457	728	4.46e-90	287.0
2446	120	387	3.75e-89	285.0
2447	128	410	2.33e-87	280.0
2448	104	359	3.73e-84	271.0
2449	66	331	6.20e-83	268.0
2450	47	304	6.76e-80	260.0
2451	346	648	4.77e-79	258.0
2452	476	703	3.13e-76	251.0
2453	41	275	7.87e-70	233.0
2454	633	730	1.71e-23	103.0
2455	40	79	5.70e-01	33.9
2456	2	263	4.51e-90	273.0
2457	30	279	1.97e-87	266.0
2458	1	231	5.41e-87	265.0
2459	44	334	4.53e-90	275.0
2460	89	340	1.28e-87	268.0
2461	386	646	5.65e-90	285.0
2462	332	613	1.86e-89	284.0
2463	410	674	4.32e-87	278.0
2464	313	585	2.51e-84	270.0
2465	442	700	4.73e-84	270.0
2466	98	359	1.05e-71	237.0
2467	13	302	1.01e-70	234.0
2468	62	327	1.41e-70	234.0
2469	49	136	1.65e-13	73.2
2470	656	699	2.30e-02	38.1
2471	1133	1418	6.48e-90	296.0
2472	1469	1727	3.86e-89	294.0
2473	1404	1670	1.93e-88	291.0
2474	489	746	1.74e-87	289.0
2475	296	578	2.34e-87	288.0
2476	433	690	3.35e-87	288.0
2477	1291	1558	6.14e-87	287.0
2478	657	914	7.59e-87	287.0
2479	461	718	2.56e-85	283.0
2480	1385	1658	3.04e-85	283.0
2481	629	886	7.52e-85	281.0
2482	377	650	1.24e-84	281.0
2483	405	662	1.77e-84	280.0
2484	1189	1446	3.58e-84	280.0
2485	769	1026	3.87e-84	279.0

2486	1329	1590	4.51e-84	279.0
2487	1441	1696	5.57e-84	279.0
2488	1021	1276	1.02e-83	278.0
2489	1273	1530	1.91e-83	277.0
2490	853	1110	2.86e-83	277.0
2491	713	970	4.01e-83	276.0
2492	1245	1502	9.64e-83	275.0
2493	545	802	1.15e-82	275.0
2494	1357	1614	1.47e-82	275.0
2495	965	1222	3.00e-82	274.0
2496	1077	1334	5.40e-82	273.0
2497	601	859	5.72e-82	273.0
2498	741	998	1.60e-81	272.0
2499	564	830	4.40e-81	270.0
2500	1049	1306	6.34e-81	270.0
2501	797	1054	2.17e-80	268.0
2502	825	1082	3.69e-80	268.0
2503	881	1138	4.48e-80	268.0
2504	937	1194	1.81e-79	266.0
2505	993	1250	2.73e-79	265.0
2506	294	548	1.80e-78	263.0
2507	72	354	2.80e-78	263.0
2508	882	1167	4.04e-78	262.0
2509	98	410	4.18e-77	259.0
2510	47	313	2.69e-71	242.0
2511	1553	1780	3.21e-70	239.0
2512	46	213	1.28e-45	168.0
2513	164	430	7.69e-90	290.0
2514	248	514	2.01e-87	283.0
2515	444	710	1.59e-86	281.0
2516	612	878	3.43e-86	280.0
2517	285	570	4.49e-86	280.0
2518	397	652	6.93e-86	279.0
2519	231	487	1.62e-85	278.0
2520	369	645	5.10e-85	277.0
2521	528	794	7.80e-85	276.0
2522	667	934	3.25e-84	275.0
2523	629	906	4.96e-84	274.0
2524	511	766	1.68e-83	273.0
2525	79	375	1.96e-83	273.0
2526	425	701	2.00e-83	273.0
2527	581	850	2.21e-83	272.0
2528	145	418	5.21e-83	271.0

2529	341	598	1.71e-82	270.0
2530	44	337	3.53e-81	266.0
2531	473	736	5.60e-81	266.0
2532	705	937	2.40e-76	253.0
2533	2	230	7.99e-90	270.0
2534	1	221	3.06e-78	240.0
2535	10	230	4.01e-77	238.0
2536	211	482	9.37e-90	294.0
2537	180	450	2.95e-89	293.0
2538	473	758	3.99e-89	292.0
2539	277	534	2.71e-88	290.0
2540	361	662	1.47e-87	288.0
2541	978	1232	8.92e-87	286.0
2542	922	1179	1.96e-85	282.0
2543	249	506	2.10e-85	282.0
2544	305	563	2.64e-85	281.0
2545	417	674	3.66e-85	281.0
2546	840	1095	1.33e-84	280.0
2547	894	1151	2.80e-84	279.0
2548	809	1067	1.35e-83	277.0
2549	585	840	2.84e-83	276.0
2550	557	814	3.16e-83	276.0
2551	951	1207	3.16e-83	276.0
2552	1034	1291	1.38e-82	274.0
2553	333	590	7.32e-82	272.0
2554	5	282	7.37e-80	266.0
2555	1062	1292	2.86e-73	248.0
2556	1	254	1.57e-71	243.0
2557	1	257	9.50e-90	271.0
2558	58	313	1.51e-89	272.0
2559	21	285	1.08e-87	268.0
2560	74	314	1.48e-74	234.0
2561	32	219	1.66e-55	185.0
2562	76	331	1.83e-89	276.0
2563	160	415	5.01e-83	259.0
2564	39	303	9.53e-81	253.0
2565	132	408	2.28e-80	252.0
2566	53	268	4.11e-62	205.0
2567	201	458	2.92e-89	283.0
2568	33	290	7.00e-88	279.0
2569	7	262	3.40e-87	277.0
2570	341	598	6.72e-87	276.0
2571	257	514	3.09e-86	275.0

2572	175	430	4.48e-86	275.0
2573	315	586	6.36e-86	274.0
2574	117	374	6.64e-86	274.0
2575	61	319	1.06e-85	273.0
2576	89	346	2.39e-85	273.0
2577	258	542	2.76e-83	267.0
2578	145	402	4.44e-83	266.0
2579	425	680	5.54e-83	266.0
2580	1	234	1.65e-82	265.0
2581	369	626	8.57e-82	263.0
2582	389	652	1.02e-80	260.0
2583	3	179	2.79e-55	192.0
2584	608	892	3.51e-89	288.0
2585	354	611	5.05e-89	288.0
2586	496	777	5.32e-89	288.0
2587	662	941	9.12e-89	287.0
2588	550	807	3.64e-87	283.0
2589	382	639	5.42e-86	280.0
2590	578	833	8.11e-86	279.0
2591	326	583	9.18e-86	279.0
2592	410	668	2.05e-85	278.0
2593	29	303	2.71e-85	278.0
2594	281	555	3.27e-85	278.0
2595	244	499	3.62e-85	277.0
2596	466	723	4.32e-85	277.0
2597	670	937	6.73e-85	277.0
2598	270	527	1.12e-84	276.0
2599	158	413	2.03e-84	275.0
2600	10	275	2.77e-84	275.0
2601	102	357	3.25e-83	272.0
2602	74	331	6.83e-83	271.0
2603	438	711	2.01e-82	270.0
2604	214	469	1.05e-81	268.0
2605	186	472	6.36e-81	266.0
2606	2	247	3.53e-80	264.0
2607	1	217	1.11e-64	222.0
2608	78	364	5.21e-89	273.0
2609	50	308	1.44e-87	270.0
2610	49	275	2.29e-80	251.0
2611	106	388	4.17e-79	248.0
2612	48	252	7.52e-73	232.0
2613	47	130	3.41e-15	77.4
2614	78	364	5.21e-89	273.0

2615	50	308	1.44e-87	270.0
2616	49	275	2.29e-80	251.0
2617	106	388	4.17e-79	248.0
2618	48	252	7.52e-73	232.0
2619	47	130	3.41e-15	77.4
2620	78	364	5.21e-89	273.0
2621	50	308	1.44e-87	270.0
2622	49	275	2.29e-80	251.0
2623	106	388	4.17e-79	248.0
2624	48	252	7.52e-73	232.0
2625	47	130	3.41e-15	77.4
2626	78	364	5.21e-89	273.0
2627	50	308	1.44e-87	270.0
2628	49	275	2.29e-80	251.0
2629	106	388	4.17e-79	248.0
2630	48	252	7.52e-73	232.0
2631	47	130	3.41e-15	77.4
2632	101	368	5.97e-89	273.0
2633	140	393	4.32e-88	271.0
2634	97	339	1.25e-78	247.0
2635	166	393	1.46e-76	242.0
2636	45	298	7.92e-89	270.0
2637	39	272	3.37e-74	233.0
2638	101	298	6.84e-71	224.0
2639	39	190	8.46e-45	157.0
2640	39	135	3.95e-19	87.8
2641	45	298	7.92e-89	270.0
2642	39	272	3.37e-74	233.0
2643	101	298	6.84e-71	224.0
2644	39	190	8.46e-45	157.0
2645	39	135	3.95e-19	87.8
2646	45	298	7.92e-89	270.0
2647	39	272	3.37e-74	233.0
2648	101	298	6.84e-71	224.0
2649	39	190	8.46e-45	157.0
2650	39	135	3.95e-19	87.8
2651	45	298	7.92e-89	270.0
2652	39	272	3.37e-74	233.0
2653	101	298	6.84e-71	224.0
2654	39	190	8.46e-45	157.0
2655	39	135	3.95e-19	87.8
2656	45	298	7.92e-89	270.0
2657	39	272	3.37e-74	233.0

2658	101	298	6.84e-71	224.0
2659	39	190	8.46e-45	157.0
2660	39	135	3.95e-19	87.8
2661	45	298	7.92e-89	270.0
2662	39	272	3.37e-74	233.0
2663	101	298	6.84e-71	224.0
2664	39	190	8.46e-45	157.0
2665	39	135	3.95e-19	87.8
2666	45	298	7.92e-89	270.0
2667	39	272	3.37e-74	233.0
2668	101	298	6.84e-71	224.0
2669	39	190	8.46e-45	157.0
2670	39	135	3.95e-19	87.8
2671	45	298	7.92e-89	270.0
2672	39	272	3.37e-74	233.0
2673	101	298	6.84e-71	224.0
2674	39	190	8.46e-45	157.0
2675	39	135	3.95e-19	87.8
2676	303	559	1.22e-88	278.0
2677	79	337	1.54e-88	278.0
2678	42	308	9.20e-84	266.0
2679	53	299	6.56e-81	258.0
2680	314	559	3.71e-77	248.0
2681	351	578	4.39e-67	222.0
2682	91	344	1.70e-88	271.0
2683	52	319	5.00e-87	267.0
2684	48	290	1.50e-77	243.0
2685	117	344	5.63e-76	239.0
2686	5	258	2.08e-88	270.0
2687	33	288	1.11e-87	268.0
2688	1	234	3.00e-87	266.0
2689	52	318	1.05e-82	255.0
2690	62	319	2.67e-72	228.0
2691	81	344	2.31e-88	270.0
2692	52	316	1.30e-82	256.0
2693	117	345	5.73e-73	231.0
2694	63	250	2.00e-54	183.0
2695	81	344	2.43e-88	271.0
2696	52	348	2.41e-83	258.0
2697	91	344	2.54e-88	270.0
2698	52	319	4.49e-87	267.0
2699	48	290	1.53e-77	243.0
2700	117	344	5.22e-76	239.0

2701	78	364	4.11e-88	271.0
2702	50	308	8.48e-88	270.0
2703	49	275	1.36e-80	252.0
2704	106	388	4.79e-79	248.0
2705	48	252	2.89e-73	233.0
2706	47	130	4.03e-16	80.1
2707	383	696	4.89e-88	285.0
2708	635	890	8.57e-88	284.0
2709	607	883	1.97e-87	283.0
2710	528	836	1.40e-85	278.0
2711	376	668	4.28e-84	274.0
2712	274	601	3.68e-79	261.0
2713	105	363	8.02e-76	252.0
2714	82	330	2.85e-74	248.0
2715	123	388	5.89e-74	247.0
2716	82	306	3.91e-68	231.0
2717	81	344	6.05e-88	269.0
2718	52	316	2.63e-82	255.0
2719	117	345	1.48e-72	230.0
2720	63	250	2.09e-54	183.0
2721	28	347	6.32e-88	270.0
2722	16	273	7.41e-88	273.0
2723	100	381	5.55e-87	271.0
2724	72	328	3.54e-82	258.0
2725	212	463	2.99e-78	248.0
2726	11	245	5.02e-77	245.0
2727	156	421	3.35e-74	238.0
2728	368	463	1.50e-10	63.5
2729	131	397	7.59e-88	272.0
2730	82	340	2.22e-82	258.0
2731	148	423	8.91e-82	256.0
2732	116	364	1.53e-80	253.0
2733	81	256	4.91e-51	176.0
2734	79	226	3.34e-39	145.0
2735	91	344	7.84e-88	269.0
2736	52	319	3.17e-87	267.0
2737	48	290	1.05e-77	243.0
2738	117	344	5.63e-76	239.0
2739	808	1076	7.99e-88	288.0
2740	457	726	5.68e-87	285.0
2741	120	387	1.63e-86	284.0
2742	837	1104	8.22e-86	282.0
2743	128	410	7.61e-85	280.0

2744	902	1157	8.50e-84	277.0
2745	104	359	1.08e-81	271.0
2746	874	1132	1.36e-80	268.0
2747	66	331	1.38e-80	268.0
2748	770	1048	5.63e-80	266.0
2749	47	304	1.15e-77	259.0
2750	346	648	7.10e-77	258.0
2751	476	703	3.42e-74	250.0
2752	41	275	4.01e-68	233.0
2753	1089	1185	2.76e-16	81.6
2754	40	79	5.90e-01	33.9
2755	2	224	9.54e-88	265.0
2756	1	219	1.38e-77	238.0
2757	8	224	1.13e-75	234.0
2758	123	390	1.03e-87	273.0
2759	159	414	5.32e-83	261.0
2760	82	332	2.54e-81	256.0
2761	107	360	1.17e-76	244.0
2762	207	473	1.63e-76	244.0
2763	81	269	1.57e-45	163.0
2764	79	219	2.27e-35	135.0
2765	13	314	2.55e-87	267.0
2766	80	320	9.38e-80	248.0
2767	60	289	2.71e-74	233.0
2768	65	209	3.17e-43	153.0
2769	44	312	4.32e-87	266.0
2770	66	306	2.29e-86	264.0
2771	89	313	1.21e-81	252.0
2772	115	378	4.68e-87	270.0
2773	151	405	3.62e-80	252.0
2774	72	322	1.72e-78	248.0
2775	85	352	4.49e-77	244.0
2776	53	300	2.02e-66	216.0
2777	199	406	6.27e-55	186.0
2778	255	408	3.85e-37	139.0
2779	335	408	2.82e-09	59.3
2780	1	248	8.13e-87	263.0
2781	1	252	2.63e-86	262.0
2782	141	250	7.50e-32	121.0
2783	50	308	8.66e-87	266.0
2784	49	277	8.52e-79	245.0
2785	48	252	8.30e-65	209.0
2786	47	130	3.48e-17	82.8

2787	263	332	1.29e-08	57.0
2788	47	334	8.91e-87	271.0
2789	102	375	3.59e-84	264.0
2790	130	399	9.74e-84	263.0
2791	160	425	2.83e-80	254.0
2792	190	453	1.41e-79	252.0
2793	86	343	3.74e-79	251.0
2794	33	298	1.32e-75	242.0
2795	226	475	2.04e-74	239.0
2796	24	259	2.35e-66	218.0
2797	25	234	2.68e-53	184.0
2798	271	475	1.20e-46	166.0
2799	66	316	1.02e-86	265.0
2800	81	319	6.04e-75	235.0
2801	63	288	3.96e-68	218.0
2802	63	262	2.35e-62	202.0
2803	82	334	1.03e-86	269.0
2804	123	391	5.24e-78	246.0
2805	161	417	5.96e-74	236.0
2806	105	363	1.31e-86	269.0
2807	123	387	2.03e-80	253.0
2808	82	333	8.74e-80	252.0
2809	179	446	1.78e-72	233.0
2810	66	305	6.86e-72	231.0
2811	194	474	2.05e-86	270.0
2812	83	332	5.53e-82	258.0
2813	136	433	2.33e-81	256.0
2814	220	478	2.18e-79	251.0
2815	115	386	3.47e-78	248.0
2816	56	311	4.79e-77	245.0
2817	35	284	1.86e-72	234.0
2818	52	315	2.11e-86	265.0
2819	89	316	1.37e-75	237.0
2820	173	318	1.47e-41	149.0
2821	52	315	2.38e-86	267.0
2822	89	350	2.42e-84	262.0
2823	63	288	2.51e-76	241.0
2824	66	222	1.66e-42	153.0
2825	285	390	6.94e-10	61.2
2826	81	344	3.52e-86	265.0
2827	52	316	1.73e-80	250.0
2828	117	345	3.66e-72	229.0
2829	22	318	4.27e-86	264.0

2830	89	321	4.50e-78	243.0
2831	66	291	7.29e-74	232.0
2832	82	332	4.79e-86	268.0
2833	123	386	3.84e-81	255.0
2834	161	419	5.90e-80	252.0
2835	187	444	1.02e-78	249.0
2836	55	304	1.86e-70	228.0
2837	355	445	9.70e-14	73.2
2838	6	295	4.80e-86	265.0
2839	84	350	1.01e-82	256.0
2840	30	320	2.06e-81	253.0
2841	43	268	7.88e-73	231.0
2842	94	361	5.23e-86	271.0
2843	182	448	9.62e-83	263.0
2844	174	501	2.28e-79	254.0
2845	78	333	1.47e-78	252.0
2846	41	308	6.13e-78	250.0
2847	114	417	6.35e-76	245.0
2848	274	530	2.43e-71	233.0
2849	293	557	3.06e-70	230.0
2850	443	560	4.88e-33	130.0
2851	16	258	5.33e-86	261.0
2852	29	254	2.77e-84	257.0
2853	169	259	4.34e-23	98.2
2854	121	389	7.18e-86	268.0
2855	93	366	3.66e-84	263.0
2856	177	444	9.84e-82	257.0
2857	65	334	4.16e-81	255.0
2858	13	325	2.27e-80	253.0
2859	161	416	5.91e-80	252.0
2860	217	445	2.16e-68	222.0
2861	291	445	1.61e-36	138.0
2862	401	445	1.30e-01	35.4
2863	52	323	7.45e-86	265.0
2864	257	362	3.50e-10	62.0
2865	42	308	3.32e-85	262.0
2866	81	331	3.09e-77	241.0
2867	104	331	3.79e-77	241.0
2868	42	308	3.32e-85	262.0
2869	81	331	3.09e-77	241.0
2870	104	331	3.79e-77	241.0
2871	42	308	3.32e-85	262.0
2872	81	331	3.09e-77	241.0

2873	104	331	3.79e-77	241.0
2874	41	294	3.39e-85	267.0
2875	13	268	1.30e-82	260.0
2876	42	324	2.34e-81	257.0
2877	97	352	1.20e-78	250.0
2878	153	411	1.83e-78	250.0
2879	200	464	1.07e-77	248.0
2880	183	436	1.48e-77	247.0
2881	125	383	5.00e-77	246.0
2882	228	497	1.39e-71	232.0
2883	11	214	5.52e-62	207.0
2884	9	74	3.32e-14	74.7
2885	96	357	5.33e-85	264.0
2886	81	333	7.52e-85	264.0
2887	130	390	1.27e-83	261.0
2888	160	416	9.09e-81	253.0
2889	82	296	1.26e-60	201.0
2890	96	357	5.33e-85	264.0
2891	81	333	7.52e-85	264.0
2892	130	390	1.27e-83	261.0
2893	160	416	9.09e-81	253.0
2894	82	296	1.26e-60	201.0
2895	123	386	5.65e-85	265.0
2896	82	332	2.37e-83	261.0
2897	153	419	7.50e-82	257.0
2898	81	250	5.75e-49	171.0
2899	79	222	1.34e-42	154.0
2900	82	332	7.97e-85	265.0
2901	123	386	3.97e-79	250.0
2902	189	443	7.78e-76	241.0
2903	161	419	2.99e-73	234.0
2904	36	304	5.20e-68	221.0
2905	64	278	2.10e-53	183.0
2906	1	306	8.49e-85	263.0
2907	74	334	7.70e-81	253.0
2908	124	387	9.87e-79	247.0
2909	92	362	4.18e-78	245.0
2910	150	388	4.90e-74	235.0
2911	215	476	1.02e-84	268.0
2912	299	556	1.39e-84	268.0
2913	121	407	2.36e-84	267.0
2914	327	565	1.69e-81	260.0
2915	187	444	5.47e-78	251.0

2916	80	328	5.01e-76	246.0
2917	80	304	4.19e-69	228.0
2918	383	573	4.32e-59	201.0
2919	79	246	1.09e-48	173.0
2920	64	220	2.77e-37	142.0
2921	80	211	2.37e-28	117.0
2922	66	316	1.03e-84	260.0
2923	81	317	1.03e-71	227.0
2924	66	262	6.02e-62	201.0
2925	63	222	1.21e-40	146.0
2926	13	266	1.06e-84	264.0
2927	42	324	1.07e-83	262.0
2928	97	355	1.53e-79	251.0
2929	153	408	2.88e-79	250.0
2930	41	299	2.51e-77	245.0
2931	4	240	7.53e-76	241.0
2932	183	439	4.28e-74	237.0
2933	209	434	2.26e-63	209.0
2934	276	434	1.40e-23	102.0
2935	66	316	1.18e-84	260.0
2936	81	317	1.23e-71	226.0
2937	66	262	7.15e-62	201.0
2938	63	222	1.33e-40	146.0
2939	40	325	1.35e-84	261.0
2940	14	297	7.30e-76	239.0
2941	127	351	2.12e-65	212.0
2942	257	351	1.72e-18	86.7
2943	40	325	1.35e-84	261.0
2944	14	297	7.30e-76	239.0
2945	127	351	2.12e-65	212.0
2946	257	351	1.72e-18	86.7
2947	167	425	1.90e-84	269.0
2948	127	394	2.47e-83	266.0
2949	83	338	7.99e-81	259.0
2950	325	590	1.77e-78	253.0
2951	223	478	9.74e-78	251.0
2952	50	284	1.49e-77	251.0
2953	111	369	2.99e-77	250.0
2954	231	504	7.76e-77	249.0
2955	307	562	2.41e-76	248.0
2956	279	534	2.15e-74	242.0
2957	32	254	5.53e-59	202.0
2958	42	307	2.51e-84	259.0

2959	58	113	1.28e-09	60.1
2960	42	307	2.51e-84	259.0
2961	58	113	1.28e-09	60.1
2962	42	307	2.51e-84	259.0
2963	58	113	1.28e-09	60.1
2964	42	307	2.51e-84	259.0
2965	58	113	1.28e-09	60.1
2966	122	391	2.55e-84	262.0
2967	64	336	4.54e-83	259.0
2968	230	386	1.41e-36	137.0
2969	1	232	2.70e-84	256.0
2970	5	237	2.79e-81	248.0
2971	171	236	2.11e-16	79.0
2972	103	361	3.24e-84	261.0
2973	35	302	4.46e-82	256.0
2974	65	330	2.58e-78	246.0
2975	131	362	2.91e-69	223.0
2976	207	364	1.67e-39	145.0
2977	103	361	3.24e-84	261.0
2978	35	302	4.46e-82	256.0
2979	65	330	2.58e-78	246.0
2980	131	362	2.91e-69	223.0
2981	207	364	1.67e-39	145.0
2982	141	405	3.94e-84	261.0
2983	125	380	3.84e-83	259.0
2984	73	343	5.35e-69	223.0
2985	153	429	4.52e-84	266.0
2986	199	467	8.16e-82	260.0
2987	125	386	1.37e-80	257.0
2988	75	352	8.40e-80	254.0
2989	74	324	9.43e-76	244.0
2990	124	381	4.84e-84	262.0
2991	98	374	3.20e-81	255.0
2992	180	434	1.08e-73	236.0
2993	14	340	4.48e-73	234.0
2994	1	217	5.06e-84	254.0
2995	5	219	3.06e-74	230.0
2996	2	210	2.11e-73	228.0
2997	1	154	1.05e-53	177.0
2998	40	281	6.22e-84	258.0
2999	56	288	3.34e-81	251.0
3000	69	282	3.61e-72	228.0
3001	107	288	7.10e-59	193.0

3002	40	281	6.22e-84	258.0
3003	56	288	3.34e-81	251.0
3004	69	282	3.61e-72	228.0
3005	107	288	7.10e-59	193.0
3006	33	288	6.37e-84	259.0
3007	77	340	1.08e-82	256.0
3008	61	333	2.53e-80	249.0
3009	1	234	1.57e-79	248.0
3010	181	340	1.66e-33	128.0
3011	39	287	6.79e-84	260.0
3012	109	373	2.06e-81	253.0
3013	62	317	7.35e-80	249.0
3014	137	374	4.36e-72	229.0
3015	41	261	7.19e-65	211.0
3016	35	234	7.50e-63	206.0
3017	276	373	2.30e-21	95.1
3018	82	332	6.94e-84	262.0
3019	123	386	4.40e-79	250.0
3020	189	445	1.38e-77	246.0
3021	161	419	7.49e-76	241.0
3022	82	278	1.42e-52	181.0
3023	13	270	7.05e-84	270.0
3024	97	350	3.12e-80	261.0
3025	495	751	2.91e-79	258.0
3026	153	411	2.17e-77	253.0
3027	69	324	1.63e-75	248.0
3028	116	385	1.82e-75	248.0
3029	436	722	2.00e-75	248.0
3030	181	436	6.52e-73	241.0
3031	349	631	1.16e-69	233.0
3032	419	694	5.28e-69	231.0
3033	8	242	1.61e-66	224.0
3034	2	186	1.04e-51	184.0
3035	599	750	2.44e-33	132.0
3036	705	750	4.80e-02	37.0
3037	82	337	8.53e-84	260.0
3038	126	389	1.97e-82	257.0
3039	49	283	2.32e-80	251.0
3040	110	382	3.74e-80	251.0
3041	31	253	2.30e-61	202.0
3042	230	389	3.55e-33	128.0
3043	22	293	1.14e-83	256.0
3044	63	288	1.16e-80	249.0

3045	124	381	1.37e-83	261.0
3046	98	353	2.33e-82	258.0
3047	180	437	3.38e-74	237.0
3048	14	340	5.24e-74	236.0
3049	124	381	1.37e-83	261.0
3050	98	353	2.33e-82	258.0
3051	180	437	3.38e-74	237.0
3052	14	340	5.24e-74	236.0
3053	82	332	1.66e-83	261.0
3054	123	386	8.18e-81	254.0
3055	189	443	6.99e-78	246.0
3056	161	419	4.57e-75	239.0
3057	82	278	6.92e-52	179.0
3058	81	248	1.07e-44	160.0
3059	79	220	7.68e-39	144.0
3060	65	315	2.17e-83	257.0
3061	88	320	2.37e-81	251.0
3062	65	178	1.61e-29	116.0
3063	76	340	3.18e-83	266.0
3064	169	424	5.87e-75	244.0
3065	141	396	1.27e-74	244.0
3066	113	369	2.21e-74	243.0
3067	271	537	1.19e-72	238.0
3068	242	508	4.46e-70	232.0
3069	301	592	1.33e-67	225.0
3070	217	483	2.00e-67	225.0
3071	189	455	3.00e-67	224.0
3072	35	287	3.55e-67	224.0
3073	365	623	4.55e-62	211.0
3074	449	644	3.52e-47	170.0
3075	589	654	8.68e-07	52.0
3076	2	244	3.72e-83	254.0
3077	20	239	5.21e-78	241.0
3078	1	219	3.48e-75	233.0
3079	132	241	1.21e-31	120.0
3080	216	244	7.60e-01	32.7
3081	57	317	4.61e-83	256.0
3082	54	293	4.20e-78	243.0
3083	1	181	6.59e-26	107.0
3084	71	127	1.84e-10	62.8
3085	58	315	5.65e-83	256.0
3086	22	287	3.79e-81	252.0
3087	1	259	3.12e-75	237.0

3088	108	343	2.39e-73	232.0
3089	189	346	1.80e-39	144.0
3090	124	381	5.90e-83	259.0
3091	98	353	7.57e-82	256.0
3092	180	434	4.58e-73	234.0
3093	74	340	1.23e-72	233.0
3094	68	338	7.52e-83	270.0
3095	110	366	4.11e-71	238.0
3096	556	858	2.02e-67	228.0
3097	503	804	4.25e-65	222.0
3098	186	368	3.93e-40	152.0
3099	705	859	1.76e-33	132.0
3100	500	732	2.85e-33	132.0
3101	83	338	7.78e-83	258.0
3102	127	390	2.19e-82	256.0
3103	50	284	6.96e-80	250.0
3104	111	383	3.82e-79	248.0
3105	32	254	3.47e-61	202.0
3106	231	390	2.33e-32	125.0
3107	44	312	8.14e-83	255.0
3108	89	313	1.49e-80	249.0
3109	66	306	5.46e-80	248.0
3110	52	318	8.69e-83	255.0
3111	95	361	8.87e-83	258.0
3112	131	387	2.93e-79	248.0
3113	14	328	2.67e-78	246.0
3114	235	386	1.85e-28	115.0
3115	166	466	9.51e-83	264.0
3116	255	522	2.48e-81	261.0
3117	175	439	2.59e-80	258.0
3118	127	382	5.28e-80	257.0
3119	225	495	1.27e-79	256.0
3120	34	301	3.92e-79	255.0
3121	343	606	9.07e-79	254.0
3122	286	550	9.16e-79	254.0
3123	147	410	2.59e-76	247.0
3124	20	273	4.79e-76	247.0
3125	365	609	3.34e-72	236.0
3126	463	612	3.69e-34	134.0
3127	547	617	7.79e-12	67.8
3128	133	386	9.61e-83	259.0
3129	82	332	1.68e-80	253.0
3130	107	362	2.53e-80	253.0

3131	161	413	6.03e-79	249.0
3132	189	443	1.06e-71	231.0
3133	81	250	1.39e-46	165.0
3134	79	220	2.12e-37	140.0
3135	48	328	1.27e-82	255.0
3136	81	304	2.97e-68	218.0
3137	74	278	6.02e-59	194.0
3138	102	355	1.31e-82	256.0
3139	77	348	3.84e-79	247.0
3140	128	354	1.24e-65	213.0
3141	76	243	2.64e-50	172.0
3142	101	358	1.59e-82	259.0
3143	157	433	1.21e-79	251.0
3144	78	328	7.68e-79	249.0
3145	129	382	2.07e-76	243.0
3146	80	302	4.44e-70	226.0
3147	187	441	5.60e-69	224.0
3148	213	440	2.87e-60	201.0
3149	80	293	7.93e-55	187.0
3150	72	325	1.86e-82	254.0
3151	47	318	1.06e-79	248.0
3152	53	324	5.15e-68	218.0
3153	46	213	7.02e-50	171.0
3154	117	380	2.35e-82	261.0
3155	228	523	5.00e-81	258.0
3156	195	465	1.11e-78	252.0
3157	61	345	2.08e-78	251.0
3158	30	296	8.22e-78	249.0
3159	144	411	2.80e-77	248.0
3160	172	436	1.37e-76	246.0
3161	89	352	2.49e-76	246.0
3162	1	268	4.31e-75	242.0
3163	3	241	5.93e-72	234.0
3164	293	533	1.46e-65	218.0
3165	294	549	1.62e-60	204.0
3166	42	305	2.36e-82	254.0
3167	79	307	9.18e-78	242.0
3168	39	278	1.40e-72	229.0
3169	56	113	8.79e-10	60.5
3170	267	307	8.50e-02	35.8
3171	102	355	2.58e-82	255.0
3172	77	348	5.53e-78	244.0
3173	128	354	4.31e-65	211.0

3174	76	243	1.39e-49	171.0
3175	107	362	2.70e-82	255.0
3176	72	308	3.80e-61	201.0
3177	71	199	2.43e-20	92.0
3178	320	361	7.00e-03	39.3
3179	82	330	3.29e-82	256.0
3180	107	363	2.41e-78	246.0
3181	82	306	6.37e-74	235.0
3182	123	389	2.27e-73	233.0
3183	1	267	3.72e-82	254.0
3184	32	297	4.79e-81	251.0
3185	21	241	8.40e-65	209.0
3186	16	214	1.10e-63	206.0
3187	283	325	1.30e+00	32.3
3188	1	267	3.72e-82	254.0
3189	32	297	4.79e-81	251.0
3190	21	241	8.40e-65	209.0
3191	16	214	1.10e-63	206.0
3192	283	325	1.30e+00	32.3
3193	20	267	4.32e-82	251.0
3194	36	267	2.84e-80	247.0
3195	20	247	2.05e-77	239.0
3196	128	267	1.97e-32	123.0
3197	157	426	5.31e-82	257.0
3198	82	339	6.52e-82	256.0
3199	140	410	1.62e-75	240.0
3200	112	370	4.08e-75	239.0
3201	2	286	1.33e-74	238.0
3202	294	425	1.15e-31	124.0
3203	104	359	5.71e-82	256.0
3204	76	331	7.63e-82	256.0
3205	151	415	8.49e-77	243.0
3206	180	416	1.21e-67	219.0
3207	23	275	3.29e-67	218.0
3208	204	416	2.40e-59	198.0
3209	21	51	2.90e-01	34.3
3210	39	288	6.18e-82	252.0
3211	62	288	7.70e-69	218.0
3212	39	263	1.21e-66	213.0
3213	39	239	2.63e-56	186.0
3214	116	371	6.23e-82	257.0
3215	88	343	8.89e-82	256.0
3216	163	427	9.91e-77	243.0

3217	192	428	1.31e-67	220.0
3218	35	287	3.65e-67	219.0
3219	216	428	2.72e-59	198.0
3220	33	63	2.90e-01	34.3
3221	74	330	6.80e-82	257.0
3222	89	358	1.14e-81	256.0
3223	157	414	2.45e-81	255.0
3224	175	440	1.05e-80	254.0
3225	341	440	6.47e-18	85.9
3226	49	153	5.01e-10	62.0
3227	82	334	7.18e-82	256.0
3228	123	391	1.08e-81	256.0
3229	159	415	3.08e-80	252.0
3230	107	358	2.10e-78	247.0
3231	81	250	2.58e-46	164.0
3232	79	220	6.25e-38	141.0
3233	329	417	1.87e-12	69.3
3234	107	363	7.80e-82	255.0
3235	82	330	1.83e-79	249.0
3236	123	389	1.88e-78	246.0
3237	82	306	1.70e-70	226.0
3238	82	213	1.59e-30	120.0
3239	14	327	8.01e-82	257.0
3240	102	378	1.34e-81	256.0
3241	154	432	1.41e-78	248.0
3242	126	381	1.19e-76	243.0
3243	165	440	1.77e-76	243.0
3244	79	288	3.29e-57	193.0
3245	87	351	8.66e-82	254.0
3246	75	323	6.60e-80	249.0
3247	74	265	1.17e-61	202.0
3248	74	99	3.00e-03	40.8
3249	102	355	8.86e-82	254.0
3250	77	348	7.84e-79	246.0
3251	128	354	2.55e-65	211.0
3252	76	243	2.42e-50	172.0
3253	102	355	8.86e-82	254.0
3254	77	348	7.84e-79	246.0
3255	128	354	2.55e-65	211.0
3256	76	243	2.42e-50	172.0
3257	37	302	9.40e-82	252.0
3258	26	276	3.67e-71	225.0
3259	25	132	1.72e-31	121.0

3260	25	106	8.83e-15	75.5
3261	5	258	1.03e-81	254.0
3262	33	319	1.12e-77	244.0
3263	1	237	2.34e-76	241.0
3264	77	372	2.39e-76	241.0
3265	3	98	3.31e-26	108.0
3266	5	258	1.03e-81	254.0
3267	33	319	1.12e-77	244.0
3268	1	237	2.34e-76	241.0
3269	77	372	2.39e-76	241.0
3270	3	98	3.31e-26	108.0
3271	89	354	1.06e-81	254.0
3272	35	328	5.10e-77	241.0
3273	68	304	2.80e-70	224.0
3274	67	273	7.16e-65	210.0
3275	89	354	1.06e-81	254.0
3276	35	328	5.10e-77	241.0
3277	68	304	2.80e-70	224.0
3278	67	273	7.16e-65	210.0
3279	89	354	1.06e-81	254.0
3280	35	328	5.10e-77	241.0
3281	68	304	2.80e-70	224.0
3282	67	273	7.16e-65	210.0
3283	89	354	1.06e-81	254.0
3284	35	328	5.10e-77	241.0
3285	68	304	2.80e-70	224.0
3286	67	273	7.16e-65	210.0
3287	109	377	1.22e-81	255.0
3288	68	320	2.54e-81	254.0
3289	147	403	2.46e-78	246.0
3290	93	344	3.18e-78	246.0
3291	67	236	6.91e-46	162.0
3292	52	227	3.75e-38	142.0
3293	22	286	1.24e-81	251.0
3294	10	258	1.19e-79	246.0
3295	9	200	2.25e-61	199.0
3296	9	34	2.00e-03	40.8
3297	71	372	1.48e-81	254.0
3298	87	149	3.60e-11	65.1
3299	135	392	1.49e-81	255.0
3300	78	336	8.64e-79	248.0
3301	41	308	2.10e-74	237.0
3302	182	414	1.24e-68	222.0

3303	260	414	1.32e-36	137.0
3304	60	361	1.72e-81	254.0
3305	76	138	4.04e-11	65.1
3306	405	691	1.84e-81	269.0
3307	161	420	1.00e-80	267.0
3308	238	502	1.72e-80	266.0
3309	571	838	2.47e-80	266.0
3310	265	533	2.38e-79	263.0
3311	461	726	3.35e-79	263.0
3312	209	476	9.33e-79	261.0
3313	323	586	2.75e-78	260.0
3314	349	614	1.16e-77	258.0
3315	620	923	1.45e-77	258.0
3316	293	558	3.56e-77	257.0
3317	433	698	5.33e-77	256.0
3318	489	751	1.74e-76	255.0
3319	181	446	2.17e-76	255.0
3320	107	362	2.55e-76	254.0
3321	555	810	2.99e-76	254.0
3322	743	1006	3.45e-76	254.0
3323	125	390	2.75e-75	252.0
3324	697	950	3.13e-75	251.0
3325	53	355	3.50e-75	251.0
3326	713	976	2.25e-72	244.0
3327	798	1036	7.05e-66	226.0
3328	80	328	1.96e-81	254.0
3329	105	361	1.10e-77	244.0
3330	80	304	5.53e-75	238.0
3331	121	385	2.55e-74	236.0
3332	79	246	5.85e-49	170.0
3333	64	220	1.05e-36	137.0
3334	299	387	5.27e-12	67.8
3335	102	355	2.10e-81	253.0
3336	77	348	1.88e-78	245.0
3337	128	354	1.69e-65	212.0
3338	76	243	5.42e-50	172.0
3339	102	355	2.10e-81	253.0
3340	77	348	1.88e-78	245.0
3341	128	354	1.69e-65	212.0
3342	76	243	5.42e-50	172.0
3343	158	458	2.16e-81	258.0
3344	231	487	5.68e-76	244.0
3345	259	508	9.32e-74	238.0

3346	287	511	3.13e-52	181.0
3347	193	321	1.55e-32	128.0
3348	440	508	8.53e-04	42.4
3349	84	341	2.33e-81	256.0
3350	168	423	9.79e-75	239.0
3351	112	367	1.20e-74	239.0
3352	128	395	1.32e-71	231.0
3353	44	311	1.27e-64	213.0
3354	216	453	1.12e-60	202.0
3355	280	454	1.66e-38	144.0
3356	67	174	2.04e-22	99.0
3357	355	453	1.31e-17	84.7
3358	105	361	3.06e-81	254.0
3359	80	328	1.76e-77	244.0
3360	121	387	2.02e-77	244.0
3361	80	304	5.82e-70	224.0
3362	79	246	2.92e-49	171.0
3363	64	220	3.92e-38	141.0
3364	80	211	5.72e-29	116.0
3365	101	358	3.33e-81	255.0
3366	129	382	1.37e-78	248.0
3367	78	328	1.60e-78	248.0
3368	159	415	4.82e-78	247.0
3369	185	441	3.45e-71	229.0
3370	80	278	5.43e-56	190.0
3371	111	381	3.80e-81	254.0
3372	13	325	6.61e-80	251.0
3373	142	406	1.27e-79	250.0
3374	170	408	9.11e-65	212.0
3375	111	381	3.80e-81	254.0
3376	13	325	6.61e-80	251.0
3377	142	406	1.27e-79	250.0
3378	170	408	9.11e-65	212.0
3379	123	391	4.53e-81	254.0
3380	82	334	1.76e-80	253.0
3381	159	415	3.91e-79	249.0
3382	107	358	5.52e-78	246.0
3383	81	250	1.00e-45	162.0
3384	79	220	4.44e-37	139.0
3385	329	417	1.91e-12	69.3
3386	101	358	4.56e-81	255.0
3387	157	433	2.03e-79	251.0
3388	78	328	2.71e-79	250.0

3389	129	381	4.11e-78	247.0
3390	187	441	3.32e-69	224.0
3391	213	440	9.90e-62	205.0
3392	80	321	1.11e-55	189.0
3393	353	441	2.74e-13	72.0
3394	82	330	4.78e-81	253.0
3395	66	306	4.05e-77	243.0
3396	123	389	5.57e-72	230.0
3397	82	330	6.82e-81	253.0
3398	123	388	1.23e-71	229.0
3399	82	306	2.30e-71	228.0
3400	81	248	5.59e-45	159.0
3401	79	222	5.17e-38	141.0
3402	301	389	1.60e-13	72.4
3403	95	362	7.02e-81	253.0
3404	86	337	1.84e-76	241.0
3405	85	281	2.94e-55	186.0
3406	261	388	9.99e-27	110.0
3407	321	390	1.01e-10	63.9
3408	82	335	7.34e-81	252.0
3409	123	360	2.65e-63	206.0
3410	81	248	1.41e-51	176.0
3411	79	220	9.97e-41	147.0
3412	176	442	8.25e-81	258.0
3413	207	470	1.33e-78	253.0
3414	232	501	1.72e-77	250.0
3415	287	554	4.72e-77	249.0
3416	162	414	6.22e-77	248.0
3417	37	305	1.14e-75	245.0
3418	263	526	2.37e-75	244.0
3419	319	582	2.63e-74	241.0
3420	101	358	4.93e-73	238.0
3421	65	333	7.29e-73	238.0
3422	122	389	2.89e-71	233.0
3423	2	277	1.10e-67	224.0
3424	341	583	4.53e-67	223.0
3425	51	299	8.33e-81	251.0
3426	92	358	6.49e-77	241.0
3427	51	275	1.12e-74	236.0
3428	76	332	1.59e-74	235.0
3429	50	219	1.22e-49	171.0
3430	48	210	1.34e-39	144.0
3431	123	391	8.86e-81	253.0

3432	82	334	1.22e-80	253.0
3433	161	417	1.35e-77	245.0
3434	107	358	1.83e-77	245.0
3435	81	250	8.68e-47	165.0
3436	66	241	1.25e-38	143.0
3437	9	284	9.00e-81	249.0
3438	27	260	1.81e-64	208.0
3439	190	286	3.07e-22	96.7
3440	102	355	9.45e-81	251.0
3441	77	348	3.30e-79	247.0
3442	128	354	1.49e-65	212.0
3443	76	243	4.03e-50	172.0
3444	102	355	9.45e-81	251.0
3445	77	348	3.30e-79	247.0
3446	128	354	1.49e-65	212.0
3447	76	243	4.03e-50	172.0
3448	37	301	9.98e-81	249.0
3449	19	276	3.80e-76	238.0
3450	120	302	5.98e-44	155.0
3451	37	301	9.98e-81	249.0
3452	19	276	3.80e-76	238.0
3453	120	302	5.98e-44	155.0
3454	52	329	1.14e-80	250.0
3455	72	318	2.08e-61	201.0
3456	162	316	2.18e-37	138.0
3457	52	329	1.14e-80	250.0
3458	72	318	2.08e-61	201.0
3459	162	316	2.18e-37	138.0
3460	55	307	1.15e-80	252.0
3461	96	364	1.72e-80	252.0
3462	132	390	3.70e-77	243.0
3463	80	331	6.40e-77	243.0
3464	54	223	3.35e-45	160.0
3465	52	214	2.38e-37	139.0
3466	33	314	1.18e-80	256.0
3467	6	260	6.46e-80	254.0
3468	173	428	1.39e-78	251.0
3469	119	372	2.08e-77	248.0
3470	229	484	9.26e-77	246.0
3471	80	347	2.82e-74	239.0
3472	201	459	2.62e-71	232.0
3473	257	510	3.11e-71	231.0
3474	3	206	4.31e-57	194.0

3475	1	148	6.35e-41	151.0
3476	341	517	7.34e-39	145.0
3477	3	100	1.84e-25	108.0
3478	187	442	1.23e-80	254.0
3479	94	361	2.02e-80	253.0
3480	131	389	5.49e-80	252.0
3481	75	333	2.03e-76	243.0
3482	37	305	2.20e-75	240.0
3483	148	417	9.68e-75	238.0
3484	204	443	1.61e-69	225.0
3485	22	274	3.88e-69	224.0
3486	14	249	5.35e-61	203.0
3487	11	137	5.22e-32	125.0
3488	14	88	4.86e-10	62.0
3489	82	330	1.47e-80	252.0
3490	123	389	1.53e-77	244.0
3491	107	363	7.17e-76	240.0
3492	82	306	1.71e-74	236.0
3493	81	248	2.82e-51	176.0
3494	73	222	2.75e-38	142.0
3495	76	342	1.52e-80	252.0
3496	102	370	3.83e-77	243.0
3497	46	314	5.72e-76	240.0
3498	35	283	1.68e-73	234.0
3499	35	260	8.20e-63	206.0
3500	30	227	1.62e-55	187.0
3501	268	391	3.61e-22	97.8
3502	76	342	1.52e-80	252.0
3503	102	370	3.83e-77	243.0
3504	46	314	5.72e-76	240.0
3505	35	283	1.68e-73	234.0
3506	35	260	8.20e-63	206.0
3507	30	227	1.62e-55	187.0
3508	268	391	3.61e-22	97.8
3509	76	342	1.52e-80	252.0
3510	102	370	3.83e-77	243.0
3511	46	314	5.72e-76	240.0
3512	35	283	1.68e-73	234.0
3513	35	260	8.20e-63	206.0
3514	30	227	1.62e-55	187.0
3515	268	391	3.61e-22	97.8
3516	23	322	1.56e-80	251.0
3517	87	347	6.47e-75	237.0

3518	123	377	2.83e-73	233.0
3519	169	376	3.07e-54	183.0
3520	64	243	6.34e-45	159.0
3521	72	132	2.11e-08	56.6
3522	110	380	1.65e-80	252.0
3523	58	324	2.87e-79	249.0
3524	141	405	3.20e-79	249.0
3525	94	352	3.42e-77	244.0
3526	17	296	1.56e-75	239.0
3527	169	407	3.68e-64	210.0
3528	623	890	1.78e-80	266.0
3529	132	401	1.15e-79	263.0
3530	49	332	1.81e-79	263.0
3531	551	836	2.20e-79	263.0
3532	719	976	2.22e-79	263.0
3533	595	868	1.75e-78	260.0
3534	551	823	4.50e-78	259.0
3535	162	427	1.67e-77	258.0
3536	104	377	4.28e-77	256.0
3537	200	455	4.83e-77	256.0
3538	653	918	1.19e-76	255.0
3539	679	946	2.54e-76	254.0
3540	88	345	5.90e-76	253.0
3541	216	503	5.96e-76	253.0
3542	526	780	5.20e-71	240.0
3543	37	289	3.67e-70	237.0
3544	452	752	1.70e-64	222.0
3545	26	261	5.05e-63	218.0
3546	775	1003	4.56e-62	215.0
3547	359	671	3.70e-60	209.0
3548	273	587	1.57e-58	205.0
3549	793	1003	5.33e-53	189.0
3550	27	236	1.29e-48	176.0
3551	90	343	1.88e-80	250.0
3552	161	346	3.38e-42	151.0
3553	57	180	1.63e-23	100.0
3554	65	125	2.00e-03	41.2
3555	97	350	1.93e-80	250.0
3556	168	353	3.87e-42	151.0
3557	64	187	1.59e-23	100.0
3558	72	132	2.00e-03	41.2
3559	82	330	1.98e-80	251.0
3560	82	306	1.85e-73	234.0

3561	123	388	6.49e-70	224.0
3562	81	248	6.48e-47	164.0
3563	79	222	1.04e-38	143.0
3564	301	389	5.27e-12	67.8
3565	122	423	2.19e-80	253.0
3566	184	450	1.51e-77	246.0
3567	75	338	5.19e-70	226.0
3568	58	308	2.82e-67	219.0
3569	39	282	1.81e-64	212.0
3570	251	453	2.89e-45	162.0
3571	47	117	5.77e-10	61.6
3572	92	353	2.33e-80	252.0
3573	128	386	4.36e-76	241.0
3574	88	329	2.92e-71	229.0
3575	158	412	3.13e-69	223.0
3576	184	408	8.30e-63	207.0
3577	84	302	1.91e-59	198.0
3578	286	407	1.13e-23	102.0
3579	121	389	2.36e-80	252.0
3580	80	332	3.55e-80	252.0
3581	159	415	1.13e-76	243.0
3582	105	356	2.31e-76	242.0
3583	79	248	2.13e-45	161.0
3584	64	239	5.40e-37	139.0
3585	64	312	2.52e-80	249.0
3586	29	312	9.58e-74	232.0
3587	63	259	9.07e-61	198.0
3588	141	315	2.05e-34	129.0
3589	47	172	6.67e-31	120.0
3590	272	314	2.60e+00	31.2
3591	64	312	2.52e-80	249.0
3592	29	312	9.58e-74	232.0
3593	63	259	9.07e-61	198.0
3594	141	315	2.05e-34	129.0
3595	47	172	6.67e-31	120.0
3596	272	314	2.60e+00	31.2
3597	142	413	2.55e-80	254.0
3598	186	441	1.98e-76	244.0
3599	206	467	4.03e-75	241.0
3600	242	497	1.58e-74	239.0
3601	87	301	1.15e-53	185.0
3602	177	444	2.91e-80	261.0
3603	384	660	4.73e-79	258.0

3604	345	611	5.36e-77	252.0
3605	150	415	1.21e-75	248.0
3606	329	583	3.15e-75	247.0
3607	440	693	9.04e-75	246.0
3608	38	303	2.30e-72	240.0
3609	78	329	1.24e-71	238.0
3610	22	276	2.34e-71	237.0
3611	104	359	4.42e-70	234.0
3612	487	748	1.01e-69	233.0
3613	292	555	3.02e-68	229.0
3614	448	723	4.93e-67	226.0
3615	13	247	1.29e-63	216.0
3616	22	194	1.99e-38	146.0
3617	682	748	3.16e-09	59.7
3618	5	263	3.58e-80	248.0
3619	1	232	7.80e-70	221.0
3620	106	288	7.11e-48	164.0
3621	49	311	3.79e-80	249.0
3622	32	284	1.52e-73	232.0
3623	30	203	1.64e-46	162.0
3624	21	146	4.72e-30	118.0
3625	32	66	1.00e-02	38.9
3626	48	306	4.75e-80	249.0
3627	12	275	5.77e-74	233.0
3628	149	331	1.46e-47	165.0
3629	102	355	5.27e-80	249.0
3630	77	348	1.61e-77	243.0
3631	128	354	8.65e-65	210.0
3632	76	243	2.42e-47	165.0
3633	33	263	5.40e-80	246.0
3634	23	260	1.67e-75	234.0
3635	57	262	3.47e-74	231.0
3636	36	251	4.34e-70	221.0
3637	113	263	1.05e-47	163.0
3638	39	306	6.14e-80	249.0
3639	76	355	3.29e-68	219.0
3640	23	275	3.89e-67	216.0
3641	122	355	2.24e-63	206.0
3642	22	194	1.98e-38	141.0
3643	8	133	7.10e-27	110.0
3644	236	356	5.03e-25	105.0
3645	8	54	4.90e+00	30.4
3646	217	480	6.41e-80	254.0

3647	105	368	4.79e-78	249.0
3648	169	426	3.48e-74	239.0
3649	271	533	5.27e-72	234.0
3650	60	312	9.67e-69	225.0
3651	75	343	1.36e-68	225.0
3652	298	533	1.91e-65	217.0
3653	57	282	7.30e-64	213.0
3654	57	229	1.28e-42	156.0
3655	217	482	6.56e-80	254.0
3656	105	368	5.28e-78	249.0
3657	169	426	3.40e-74	240.0
3658	271	536	4.67e-72	234.0
3659	60	312	9.02e-69	226.0
3660	75	343	1.44e-68	225.0
3661	298	538	3.71e-67	221.0
3662	57	282	7.07e-64	213.0
3663	357	539	3.05e-47	169.0
3664	57	229	1.25e-42	156.0
3665	57	149	5.79e-15	77.0
3666	102	355	6.90e-80	249.0
3667	77	348	8.82e-79	246.0
3668	128	354	1.10e-65	213.0
3669	76	243	4.69e-51	174.0
3670	39	306	7.07e-80	249.0
3671	76	355	2.90e-69	222.0
3672	21	275	3.69e-67	216.0
3673	206	355	2.29e-32	125.0
3674	236	356	1.70e-25	106.0
3675	21	54	1.10e+00	32.3
3676	7	310	7.75e-80	247.0
3677	1	278	3.01e-70	223.0
3678	82	331	8.63e-80	249.0
3679	105	360	8.31e-72	228.0
3680	81	251	7.86e-52	177.0
3681	79	241	9.70e-42	150.0
3682	130	422	8.71e-80	253.0
3683	60	312	9.26e-77	245.0
3684	189	452	3.87e-68	223.0
3685	102	368	3.21e-66	218.0
3686	214	495	4.33e-66	218.0
3687	241	495	5.13e-65	215.0
3688	57	230	9.28e-44	158.0
3689	347	622	1.06e-79	266.0

3690	113	372	1.54e-76	257.0
3691	53	342	1.60e-75	254.0
3692	141	398	4.90e-75	253.0
3693	421	678	1.74e-74	251.0
3694	197	454	5.31e-74	250.0
3695	341	594	8.46e-73	246.0
3696	255	540	3.47e-70	239.0
3697	309	566	5.52e-70	238.0
3698	171	426	1.40e-69	237.0
3699	227	480	2.14e-67	231.0
3700	451	682	7.72e-67	229.0
3701	505	811	1.30e-66	229.0
3702	561	850	1.74e-63	219.0
3703	1097	1316	4.07e-57	201.0
3704	909	1205	5.27e-57	201.0
3705	1097	1318	2.94e-55	196.0
3706	976	1261	4.89e-55	195.0
3707	750	1039	3.90e-54	192.0
3708	589	933	2.60e-50	182.0
3709	637	989	2.09e-46	170.0
3710	1230	1316	5.20e-15	77.8
3711	1245	1317	4.67e-08	56.2
3712	82	330	1.21e-79	249.0
3713	82	306	1.13e-71	229.0
3714	123	388	2.90e-70	225.0
3715	81	248	1.95e-46	163.0
3716	79	222	2.31e-38	142.0
3717	301	389	3.48e-13	71.2
3718	203	472	1.32e-79	254.0
3719	253	528	1.54e-76	246.0
3720	289	550	2.72e-72	235.0
3721	38	360	2.55e-67	222.0
3722	315	550	8.51e-67	221.0
3723	132	416	2.36e-63	212.0
3724	21	187	3.45e-38	144.0
3725	21	136	1.58e-24	105.0
3726	6	295	1.35e-79	248.0
3727	99	353	5.77e-73	231.0
3728	72	325	6.44e-72	228.0
3729	40	244	1.02e-57	192.0
3730	152	352	3.76e-50	172.0
3731	31	188	2.73e-32	125.0
3732	96	362	1.40e-79	249.0

3733	81	329	1.00e-77	244.0
3734	130	388	6.46e-76	240.0
3735	81	303	5.67e-70	224.0
3736	80	268	7.91e-52	177.0
3737	82	331	1.40e-79	248.0
3738	105	360	5.07e-72	229.0
3739	81	251	1.41e-51	176.0
3740	79	241	2.31e-41	149.0
3741	116	371	1.44e-79	251.0
3742	192	455	1.79e-71	230.0
3743	228	456	1.96e-65	215.0
3744	90	285	1.09e-51	179.0
3745	248	456	2.54e-51	178.0
3746	89	259	3.52e-40	148.0
3747	21	343	1.53e-79	248.0
3748	96	351	4.94e-73	231.0
3749	283	349	1.24e-06	51.2
3750	104	319	1.55e-79	247.0
3751	103	319	2.84e-78	244.0
3752	122	319	5.54e-75	235.0
3753	104	299	1.02e-73	232.0
3754	103	265	4.05e-58	192.0
3755	82	330	1.64e-79	249.0
3756	123	388	3.45e-73	233.0
3757	82	306	2.54e-71	228.0
3758	81	248	8.66e-46	162.0
3759	79	222	1.14e-37	140.0
3760	301	389	1.04e-13	72.8
3761	82	330	1.66e-79	249.0
3762	82	306	1.01e-73	234.0
3763	135	389	9.24e-72	229.0
3764	161	388	5.11e-66	214.0
3765	81	248	2.13e-47	166.0
3766	79	222	5.47e-39	144.0
3767	82	185	9.38e-17	82.0
3768	301	389	4.68e-12	67.8
3769	76	331	1.81e-79	248.0
3770	37	306	3.79e-71	226.0
3771	12	275	5.02e-69	221.0
3772	123	345	4.45e-53	179.0
3773	188	347	5.91e-39	142.0
3774	82	331	1.94e-79	248.0
3775	105	360	1.86e-71	228.0

3776	81	251	7.86e-52	177.0
3777	79	241	9.70e-42	150.0
3778	82	331	1.94e-79	248.0
3779	105	360	1.86e-71	228.0
3780	81	251	7.86e-52	177.0
3781	79	241	9.70e-42	150.0
3782	52	318	2.09e-79	247.0
3783	72	318	1.91e-60	198.0
3784	162	316	7.15e-37	137.0
3785	277	327	7.50e-01	33.1
3786	81	338	2.11e-79	250.0
3787	156	420	2.03e-71	229.0
3788	193	421	2.35e-65	214.0
3789	55	250	1.50e-51	177.0
3790	213	421	2.24e-51	177.0
3791	54	224	4.67e-40	147.0
3792	82	335	2.88e-79	248.0
3793	105	360	1.13e-70	226.0
3794	81	248	1.65e-50	173.0
3795	47	335	2.89e-79	247.0
3796	484	769	3.05e-79	259.0
3797	21	291	7.22e-79	258.0
3798	456	729	7.69e-79	258.0
3799	401	688	1.05e-78	258.0
3800	5	260	8.94e-78	255.0
3801	552	807	1.20e-77	255.0
3802	514	779	2.05e-77	254.0
3803	440	697	2.28e-76	251.0
3804	61	315	2.38e-76	251.0
3805	77	344	1.37e-75	249.0
3806	1	232	4.72e-74	245.0
3807	377	641	4.59e-73	243.0
3808	568	808	1.39e-65	223.0
3809	245	555	8.04e-65	221.0
3810	106	415	9.66e-64	218.0
3811	135	448	2.36e-63	216.0
3812	285	588	2.64e-63	216.0
3813	1	169	2.42e-47	172.0
3814	607	864	3.16e-79	264.0
3815	414	722	6.61e-75	252.0
3816	736	1019	1.07e-74	251.0
3817	495	752	2.84e-74	250.0
3818	663	920	9.36e-74	249.0

3819	720	976	5.24e-73	246.0
3820	541	808	2.35e-72	245.0
3821	681	948	1.67e-71	242.0
3822	803	1060	2.99e-71	241.0
3823	523	780	5.12e-71	241.0
3824	582	834	5.76e-71	241.0
3825	776	1032	1.68e-69	237.0
3826	851	1116	4.47e-69	235.0
3827	61	391	4.88e-69	235.0
3828	877	1172	9.70e-66	226.0
3829	933	1196	1.84e-60	211.0
3830	35	277	5.02e-51	184.0
3831	50	305	3.62e-79	249.0
3832	162	419	1.54e-76	243.0
3833	29	279	3.13e-75	239.0
3834	126	394	2.73e-72	231.0
3835	210	420	1.73e-46	164.0
3836	24	326	3.67e-79	247.0
3837	104	351	9.91e-76	238.0
3838	127	351	1.31e-67	218.0
3839	43	220	1.12e-47	166.0
3840	29	160	2.09e-29	117.0
3841	259	355	2.18e-19	89.4
3842	314	351	6.30e+00	30.0
3843	32	295	3.76e-79	247.0
3844	89	353	1.45e-78	246.0
3845	118	354	9.68e-70	223.0
3846	15	242	1.87e-66	214.0
3847	16	187	1.28e-46	163.0
3848	20	160	1.35e-38	142.0
3849	105	364	3.94e-79	248.0
3850	75	334	7.62e-79	247.0
3851	131	368	3.68e-71	227.0
3852	177	364	6.90e-50	172.0
3853	51	223	6.76e-49	169.0
3854	76	342	4.13e-79	248.0
3855	60	310	1.24e-72	231.0
3856	64	283	1.33e-58	194.0
3857	63	256	9.29e-56	187.0
3858	60	230	2.69e-45	160.0
3859	253	369	1.37e-16	81.3
3860	82	330	4.24e-79	248.0
3861	82	306	4.43e-71	228.0

3862	123	389	4.58e-71	228.0
3863	81	248	9.22e-46	161.0
3864	79	222	7.57e-38	140.0
3865	105	368	4.41e-79	248.0
3866	37	340	6.89e-77	243.0
3867	124	398	1.78e-71	229.0
3868	223	399	9.04e-48	167.0
3869	57	121	1.00e-03	41.6
3870	74	362	4.47e-79	248.0
3871	70	326	4.67e-79	246.0
3872	21	267	3.15e-67	216.0
3873	21	246	5.42e-61	200.0
3874	20	216	4.92e-51	174.0
3875	82	330	4.76e-79	246.0
3876	82	304	1.73e-64	209.0
3877	131	330	2.77e-55	185.0
3878	81	211	1.42e-26	108.0
3879	80	185	8.54e-20	90.1
3880	235	330	6.42e-18	84.7
3881	289	330	4.40e-01	33.9
3882	82	330	4.76e-79	246.0
3883	82	304	1.73e-64	209.0
3884	131	330	2.77e-55	185.0
3885	81	211	1.42e-26	108.0
3886	80	185	8.54e-20	90.1
3887	235	330	6.42e-18	84.7
3888	289	330	4.40e-01	33.9
3889	71	324	5.31e-79	246.0
3890	94	349	8.44e-69	220.0
3891	70	237	8.06e-50	171.0
3892	82	332	6.24e-79	246.0
3893	82	307	1.24e-68	219.0
3894	123	332	6.59e-56	186.0
3895	81	271	6.95e-50	171.0
3896	79	220	1.78e-39	144.0
3897	245	333	1.10e-13	72.4
3898	75	374	8.12e-79	247.0
3899	37	311	8.43e-79	245.0
3900	22	274	2.75e-72	228.0
3901	78	305	3.46e-53	179.0
3902	26	79	2.40e-11	65.5
3903	37	304	8.79e-79	246.0
3904	22	276	1.95e-74	234.0

3905	149	347	7.80e-46	160.0
3906	37	304	8.79e-79	246.0
3907	22	276	1.95e-74	234.0
3908	149	347	7.80e-46	160.0
3909	37	304	8.79e-79	246.0
3910	22	276	1.95e-74	234.0
3911	149	347	7.80e-46	160.0
3912	62	293	9.55e-79	244.0
3913	49	290	2.35e-78	243.0
3914	79	292	3.00e-72	227.0
3915	145	293	9.19e-52	174.0
3916	111	374	1.01e-78	248.0
3917	58	345	1.43e-73	235.0
3918	147	401	1.81e-70	227.0
3919	98	318	3.46e-64	211.0
3920	178	404	4.98e-64	210.0
3921	203	405	5.59e-53	181.0
3922	94	262	3.28e-46	163.0
3923	259	408	4.50e-36	136.0
3924	333	404	1.93e-11	66.2
3925	76	330	1.09e-78	245.0
3926	53	305	2.31e-71	226.0
3927	48	249	3.55e-58	192.0
3928	180	323	1.06e-23	101.0
3929	120	374	1.15e-78	251.0
3930	192	460	2.21e-77	248.0
3931	213	494	1.47e-76	245.0
3932	95	292	5.82e-46	165.0
3933	75	151	3.51e-08	56.2
3934	120	374	1.15e-78	251.0
3935	192	460	2.21e-77	248.0
3936	213	494	1.47e-76	245.0
3937	95	292	5.82e-46	165.0
3938	75	151	3.51e-08	56.2
3939	112	405	1.17e-78	250.0
3940	34	349	3.86e-76	244.0
3941	243	497	5.55e-71	230.0
3942	170	440	3.98e-70	228.0
3943	197	467	2.33e-67	221.0
3944	269	496	6.67e-60	201.0
3945	314	499	1.65e-42	155.0
3946	82	330	1.23e-78	247.0
3947	107	363	7.73e-76	240.0

3948	123	389	1.05e-74	237.0
3949	82	306	2.33e-71	228.0
3950	81	248	3.13e-51	176.0
3951	79	222	7.02e-39	143.0
3952	39	303	1.60e-78	244.0
3953	1	278	2.36e-71	226.0
3954	95	308	7.55e-58	191.0
3955	177	304	1.44e-26	108.0
3956	82	330	1.74e-78	246.0
3957	123	388	3.69e-71	228.0
3958	82	306	5.95e-70	224.0
3959	81	248	4.63e-45	160.0
3960	79	222	7.27e-38	140.0
3961	301	389	1.10e-13	72.8
3962	177	444	1.81e-78	259.0
3963	150	415	3.04e-76	253.0
3964	384	640	4.23e-75	250.0
3965	345	611	3.08e-74	248.0
3966	524	779	5.42e-73	244.0
3967	76	329	7.50e-73	244.0
3968	319	583	1.78e-72	243.0
3969	440	693	3.51e-72	242.0
3970	38	303	8.92e-72	241.0
3971	487	753	9.97e-72	241.0
3972	664	919	2.30e-70	237.0
3973	244	497	3.15e-70	237.0
3974	22	276	6.14e-70	236.0
3975	104	387	1.21e-69	235.0
3976	599	861	1.42e-69	235.0
3977	263	555	6.36e-67	228.0
3978	448	723	5.26e-65	223.0
3979	13	247	1.27e-62	216.0
3980	720	944	1.42e-56	199.0
3981	737	944	5.20e-45	166.0
3982	22	194	4.46e-39	149.0
3983	82	330	1.86e-78	246.0
3984	107	363	1.19e-73	234.0
3985	82	306	5.67e-71	227.0
3986	123	388	6.45e-71	227.0
3987	81	248	3.06e-46	163.0
3988	79	222	1.78e-38	142.0
3989	301	389	1.42e-13	72.4
3990	51	299	2.21e-78	245.0

3991	76	332	2.58e-76	240.0
3992	51	275	7.35e-73	231.0
3993	92	358	1.65e-72	230.0
3994	201	455	2.46e-78	252.0
3995	273	541	5.02e-77	249.0
3996	301	575	2.83e-76	247.0
3997	176	373	7.70e-46	166.0
3998	156	232	3.43e-08	56.6
3999	39	304	2.71e-78	245.0
4000	56	352	4.32e-73	232.0
4001	3	192	3.27e-44	157.0
4002	547	843	2.84e-78	258.0
4003	632	898	3.22e-77	255.0
4004	613	871	6.36e-77	254.0
4005	57	324	3.00e-74	247.0
4006	500	787	5.15e-71	238.0
4007	196	465	1.01e-69	235.0
4008	4	293	1.15e-69	235.0
4009	94	349	2.87e-69	234.0
4010	140	406	5.12e-68	230.0
4011	408	703	3.54e-58	203.0
4012	25	275	5.15e-56	197.0
4013	278	588	1.19e-51	185.0
4014	418	674	2.99e-78	254.0
4015	88	301	3.47e-50	179.0
4016	91	286	7.06e-45	164.0
4017	93	284	4.79e-43	159.0
4018	88	259	5.79e-40	150.0
4019	130	284	3.06e-36	140.0
4020	188	477	3.37e-36	140.0
4021	116	286	1.11e-34	135.0
4022	548	670	2.62e-23	102.0
4023	614	676	9.41e-13	70.5
4024	392	424	2.30e-01	35.0
4025	45	305	3.15e-78	243.0
4026	55	140	1.44e-15	77.8
4027	235	304	1.39e-09	59.7
4028	2	229	3.45e-78	241.0
4029	8	229	1.48e-75	234.0
4030	2	213	1.26e-73	229.0
4031	1	153	2.05e-51	172.0
4032	1	248	3.52e-78	242.0
4033	1	218	2.56e-73	229.0

4034	24	224	6.59e-60	195.0
4035	47	309	3.84e-78	244.0
4036	70	330	1.92e-73	231.0
4037	38	253	3.88e-50	171.0
4038	48	199	4.66e-33	126.0
4039	33	167	4.02e-29	115.0
4040	104	359	5.47e-78	245.0
4041	78	334	1.74e-76	241.0
4042	48	303	2.52e-74	235.0
4043	27	278	1.13e-68	221.0
4044	156	361	4.43e-47	164.0
4045	216	362	1.93e-34	131.0
4046	25	108	7.98e-17	82.0
4047	41	283	5.52e-78	241.0
4048	41	279	3.70e-75	234.0
4049	69	281	7.25e-73	228.0
4050	82	335	5.93e-78	244.0
4051	105	361	5.85e-74	234.0
4052	81	248	1.08e-50	174.0
4053	79	220	1.46e-41	150.0
4054	82	330	6.34e-78	245.0
4055	107	363	4.28e-76	240.0
4056	123	389	6.79e-74	235.0
4057	82	306	1.20e-70	226.0
4058	81	248	3.23e-51	176.0
4059	79	222	7.09e-39	143.0
4060	52	304	6.40e-78	245.0
4061	93	361	5.68e-74	235.0
4062	131	387	4.38e-71	228.0
4063	51	220	4.40e-45	160.0
4064	49	190	5.27e-39	144.0
4065	82	335	6.46e-78	244.0
4066	107	361	1.47e-75	238.0
4067	133	360	3.42e-69	222.0
4068	81	248	4.00e-53	180.0
4069	66	220	5.30e-38	140.0
4070	273	361	9.66e-13	69.7
4071	82	334	7.64e-78	246.0
4072	123	391	9.10e-73	233.0
4073	161	416	3.00e-71	229.0
4074	81	250	2.13e-46	164.0
4075	79	241	7.07e-39	144.0
4076	329	417	3.71e-13	71.2

4077	61	116	4.10e-01	32.7
4078	1437	1555	2.30e+00	30.4
4079	1437	1555	2.50e+00	30.0
4080	1	62	5.90e+00	28.9
4081	1	62	5.90e+00	28.9
4082	253	746	1.24e-140	433.0
4083	280	802	3.60e-139	429.0
4084	86	604	3.20e-138	427.0
4085	340	858	7.19e-138	426.0
4086	5	576	5.82e-136	421.0
4087	1	520	8.68e-135	418.0
4088	373	886	9.74e-132	410.0
4089	421	908	1.38e-131	410.0
4090	755	905	4.97e-17	86.7
4091	304	851	4.43e-140	435.0
4092	107	600	1.12e-137	429.0
4093	192	711	1.31e-137	428.0
4094	416	935	6.33e-133	416.0
4095	30	543	1.33e-132	415.0
4096	2	487	1.37e-132	415.0
4097	51	544	4.15e-132	414.0
4098	441	991	6.38e-131	411.0
4099	500	1019	4.30e-126	398.0
4100	948	1021	6.50e-01	34.7
4101	79	571	5.25e-140	421.0
4102	107	572	2.09e-131	399.0
4103	66	401	1.15e-95	306.0
4104	387	573	1.99e-26	115.0
4105	250	744	5.75e-140	427.0
4106	4	489	1.27e-131	406.0
4107	77	658	2.32e-130	402.0
4108	31	546	3.23e-130	402.0
4109	306	773	1.83e-127	395.0
4110	1	433	3.22e-127	394.0
4111	559	773	1.08e-37	150.0
4112	588	774	1.53e-27	119.0
4113	130	615	2.93e-139	424.0
4114	178	697	4.03e-137	419.0
4115	158	643	1.54e-136	417.0
4116	32	559	2.13e-133	409.0
4117	214	699	4.10e-133	408.0
4118	85	587	1.13e-131	404.0
4119	242	718	1.21e-128	397.0

4120	82	447	4.05e-98	317.0
4121	351	718	6.07e-76	258.0
4122	431	720	2.38e-56	204.0
4123	163	713	5.11e-138	422.0
4124	78	625	2.51e-135	415.0
4125	247	739	5.59e-128	396.0
4126	277	765	2.57e-127	394.0
4127	63	535	2.60e-125	389.0
4128	329	765	2.98e-104	334.0
4129	9	458	1.08e-137	412.0
4130	3	484	2.00e-127	385.0
4131	23	484	3.39e-119	364.0
4132	4	345	1.21e-97	308.0
4133	3	261	2.58e-74	248.0
4134	415	485	3.10e-01	35.4
4135	375	895	1.90e-137	426.0
4136	68	561	1.19e-131	410.0
4137	206	727	1.19e-131	410.0
4138	95	589	1.99e-129	404.0
4139	453	925	2.13e-123	389.0
4140	459	928	1.12e-121	384.0
4141	55	532	5.05e-121	382.0
4142	53	391	6.02e-91	303.0
4143	52	309	1.30e-71	250.0
4144	125	643	5.34e-137	425.0
4145	150	699	1.12e-127	400.0
4146	237	759	1.64e-126	397.0
4147	209	727	5.23e-126	396.0
4148	379	897	2.72e-125	394.0
4149	469	951	3.60e-118	375.0
4150	56	447	6.76e-104	338.0
4151	687	951	3.79e-45	174.0
4152	713	951	1.75e-37	150.0
4153	716	951	1.21e-32	135.0
4154	247	765	8.09e-137	424.0
4155	282	793	1.75e-132	413.0
4156	443	935	7.05e-130	406.0
4157	335	851	1.04e-126	397.0
4158	81	571	1.27e-126	397.0
4159	106	653	1.57e-126	397.0
4160	63	569	8.41e-126	395.0
4161	472	936	1.53e-120	381.0
4162	49	485	3.30e-110	354.0

4163	638	936	2.11e-58	213.0
4164	693	936	2.28e-42	165.0
4165	753	937	3.26e-25	112.0
4166	43	535	2.44e-136	412.0
4167	19	505	3.96e-134	407.0
4168	99	595	1.75e-132	403.0
4169	2	449	4.11e-121	373.0
4170	1	367	3.38e-106	335.0
4171	1	225	1.06e-53	195.0
4172	348	589	1.48e-36	146.0
4173	106	626	3.95e-136	426.0
4174	135	656	3.86e-135	423.0
4175	42	570	1.44e-126	400.0
4176	39	488	1.81e-124	395.0
4177	423	994	9.37e-103	337.0
4178	508	1019	4.22e-99	327.0
4179	38	234	7.05e-50	188.0
4180	753	1019	6.92e-48	182.0
4181	957	1020	1.70e+00	33.5
4182	3	430	7.90e-136	406.0
4183	9	456	2.08e-132	397.0
4184	3	456	1.42e-120	367.0
4185	23	456	1.22e-114	352.0
4186	4	65	1.48e-04	46.2
4187	387	457	2.80e-01	35.4
4188	476	968	1.79e-135	424.0
4189	79	630	5.37e-134	421.0
4190	531	1050	4.95e-131	413.0
4191	139	632	3.41e-127	403.0
4192	193	714	2.96e-126	400.0
4193	143	686	6.16e-126	399.0
4194	33	520	2.81e-125	397.0
4195	607	1071	1.10e-123	394.0
4196	644	1071	1.91e-107	350.0
4197	64	434	1.24e-97	323.0
4198	47	322	2.02e-61	222.0
4199	784	1075	2.63e-56	207.0
4200	977	1069	2.50e-02	39.3
4201	22	541	2.05e-135	416.0
4202	247	738	2.54e-135	415.0
4203	107	625	6.05e-132	406.0
4204	191	709	6.45e-132	406.0
4205	7	485	1.78e-128	397.0

4206	3	402	9.59e-118	369.0
4207	303	764	3.43e-117	368.0
4208	2	401	5.90e-111	352.0
4209	695	765	5.50e-01	35.0
4210	136	653	4.07e-135	413.0
4211	77	570	6.13e-134	410.0
4212	190	710	2.61e-132	406.0
4213	69	512	1.83e-125	388.0
4214	68	318	7.50e-75	255.0
4215	69	317	1.09e-63	224.0
4216	66	205	1.13e-28	123.0
4217	3	486	7.53e-135	405.0
4218	81	512	7.04e-116	357.0
4219	132	512	9.45e-92	294.0
4220	4	65	1.59e-04	46.2
4221	443	513	2.90e-01	35.4
4222	92	611	8.71e-135	415.0
4223	83	583	1.09e-134	415.0
4224	265	781	1.57e-129	401.0
4225	316	804	6.88e-128	397.0
4226	232	725	3.99e-127	395.0
4227	203	697	4.02e-126	392.0
4228	80	501	1.27e-120	378.0
4229	716	806	1.60e-02	39.7
4230	9	459	1.02e-134	405.0
4231	23	512	2.57e-126	384.0
4232	4	345	3.34e-98	311.0
4233	3	261	2.50e-74	248.0
4234	443	513	1.10e+00	33.9
4235	105	598	1.04e-134	411.0
4236	80	569	1.43e-131	403.0
4237	62	541	2.43e-129	397.0
4238	170	651	6.26e-124	383.0
4239	191	678	2.25e-119	371.0
4240	65	400	9.45e-88	288.0
4241	61	372	9.55e-67	232.0
4242	406	680	3.54e-55	200.0
4243	497	680	1.19e-19	94.7
4244	502	680	9.95e-15	79.0
4245	388	904	1.62e-134	421.0
4246	414	932	7.25e-134	419.0
4247	470	987	1.05e-132	416.0
4248	246	737	1.01e-127	403.0

4249	22	534	7.03e-125	395.0
4250	50	562	2.05e-123	391.0
4251	525	1021	6.04e-123	390.0
4252	6	484	5.75e-119	380.0
4253	2	455	2.71e-118	378.0
4254	78	598	2.49e-117	375.0
4255	2	428	7.26e-112	361.0
4256	582	1023	1.38e-92	309.0
4257	748	1018	3.16e-47	180.0
4258	9	459	2.10e-134	404.0
4259	3	486	1.57e-129	392.0
4260	23	512	2.24e-125	381.0
4261	4	65	1.69e-04	45.8
4262	443	513	1.00e+00	33.9
4263	50	569	2.54e-134	416.0
4264	359	851	2.22e-125	393.0
4265	167	709	1.74e-124	390.0
4266	331	849	2.29e-124	390.0
4267	105	625	3.89e-124	389.0
4268	162	655	2.53e-123	387.0
4269	1	431	3.08e-118	374.0
4270	3	429	3.13e-112	358.0
4271	423	870	4.08e-107	345.0
4272	671	859	1.43e-22	104.0
4273	753	870	2.58e-06	52.0
4274	779	876	7.00e-03	40.8
4275	1209	1728	2.65e-134	436.0
4276	1042	1560	1.97e-131	428.0
4277	1293	1786	8.81e-129	420.0
4278	2050	2569	8.81e-127	414.0
4279	200	693	1.83e-125	410.0
4280	1966	2512	1.92e-125	410.0
4281	1658	2176	1.96e-125	410.0
4282	2022	2540	5.46e-125	409.0
4283	2104	2598	6.09e-124	406.0
4284	171	666	1.31e-123	405.0
4285	1525	2092	1.47e-123	405.0
4286	622	1140	4.95e-123	404.0
4287	434	918	8.70e-123	403.0
4288	2302	2794	1.28e-121	399.0
4289	285	832	2.83e-121	398.0
4290	2358	2850	4.75e-121	398.0
4291	706	1226	1.25e-118	390.0

4292	760	1254	2.47e-118	390.0
4293	2386	2882	1.24e-117	388.0
4294	1713	2232	5.02e-117	386.0
4295	77	552	1.19e-115	382.0
4296	102	580	4.52e-114	377.0
4297	2439	2876	3.55e-100	337.0
4298	60	274	1.86e-47	182.0
4299	36	554	6.13e-134	417.0
4300	456	937	5.16e-133	414.0
4301	92	638	4.84e-130	407.0
4302	120	666	8.35e-129	404.0
4303	372	892	5.66e-128	401.0
4304	435	920	1.97e-127	400.0
4305	204	722	9.04e-127	398.0
4306	2	464	7.49e-120	380.0
4307	595	937	1.04e-72	253.0
4308	650	942	3.26e-55	204.0
4309	300	819	1.08e-133	415.0
4310	52	567	1.29e-131	410.0
4311	356	876	7.78e-131	408.0
4312	215	762	9.73e-131	407.0
4313	384	878	6.45e-127	397.0
4314	412	886	6.86e-122	384.0
4315	35	511	2.43e-119	378.0
4316	3	372	3.70e-78	268.0
4317	104	599	1.14e-133	409.0
4318	76	571	2.69e-133	408.0
4319	163	654	1.27e-129	398.0
4320	91	569	1.74e-129	398.0
4321	63	515	1.27e-125	388.0
4322	63	485	5.73e-118	368.0
4323	62	319	2.97e-77	261.0
4324	527	687	1.42e-14	78.6
4325	51	569	1.20e-133	408.0
4326	162	655	2.96e-133	407.0
4327	193	678	2.97e-132	404.0
4328	2	513	8.24e-132	403.0
4329	107	625	4.03e-131	402.0
4330	275	678	2.00e-98	317.0
4331	526	674	9.63e-17	85.5
4332	25	531	1.99e-133	403.0
4333	7	486	5.15e-132	399.0
4334	51	536	7.30e-124	378.0

4335	2	373	7.85e-107	334.0
4336	2	234	8.55e-60	210.0
4337	55	547	5.55e-133	410.0
4338	2	489	1.13e-124	388.0
4339	1	545	4.06e-122	382.0
4340	195	713	3.35e-119	374.0
4341	280	788	4.15e-118	371.0
4342	251	761	1.31e-113	359.0
4343	643	788	1.42e-09	62.8
4344	23	570	7.51e-133	406.0
4345	106	599	6.16e-130	399.0
4346	193	683	3.89e-129	397.0
4347	78	571	2.32e-126	389.0
4348	219	684	4.85e-118	368.0
4349	2	403	2.29e-114	358.0
4350	4	374	1.91e-88	290.0
4351	440	684	5.90e-38	151.0
4352	2	483	8.41e-133	399.0
4353	7	459	3.24e-128	387.0
4354	2	458	8.93e-128	386.0
4355	22	483	4.11e-125	379.0
4356	49	483	2.30e-118	362.0
4357	3	515	1.09e-132	402.0
4358	7	489	4.35e-131	398.0
4359	53	569	6.48e-130	395.0
4360	79	571	7.29e-129	392.0
4361	23	545	8.46e-128	389.0
4362	468	570	4.37e-06	51.2
4363	25	541	1.23e-132	401.0
4364	51	543	8.20e-132	399.0
4365	7	485	9.07e-130	394.0
4366	2	517	3.41e-129	392.0
4367	440	542	1.85e-05	49.3
4368	22	534	1.46e-132	402.0
4369	13	486	3.15e-132	401.0
4370	48	568	1.53e-131	399.0
4371	4	402	7.00e-119	367.0
4372	78	571	2.76e-117	362.0
4373	2	234	1.51e-67	232.0
4374	468	571	1.88e-05	49.3
4375	620	1138	5.23e-132	422.0
4376	816	1334	2.77e-131	420.0
4377	872	1390	2.63e-129	415.0

4378	571	1056	8.56e-129	413.0
4379	422	942	1.41e-127	410.0
4380	702	1222	1.44e-127	410.0
4381	480	971	2.68e-127	409.0
4382	225	746	1.88e-124	402.0
4383	174	694	2.06e-124	401.0
4384	900	1418	1.41e-123	399.0
4385	263	774	6.65e-122	395.0
4386	115	636	3.10e-120	390.0
4387	948	1420	3.67e-119	387.0
4388	954	1421	1.54e-118	385.0
4389	79	606	6.77e-118	384.0
4390	72	550	1.05e-114	375.0
4391	71	354	5.22e-67	239.0
4392	1243	1422	3.60e-23	106.0
4393	620	1138	5.23e-132	422.0
4394	816	1334	2.77e-131	420.0
4395	872	1390	2.63e-129	415.0
4396	571	1056	8.56e-129	413.0
4397	422	942	1.41e-127	410.0
4398	702	1222	1.44e-127	410.0
4399	480	971	2.68e-127	409.0
4400	225	746	1.88e-124	402.0
4401	174	694	2.06e-124	401.0
4402	900	1418	1.41e-123	399.0
4403	263	774	6.65e-122	395.0
4404	115	636	3.10e-120	390.0
4405	948	1420	3.67e-119	387.0
4406	954	1421	1.54e-118	385.0
4407	79	606	6.77e-118	384.0
4408	72	550	1.05e-114	375.0
4409	71	354	5.22e-67	239.0
4410	1243	1422	3.60e-23	106.0
4411	86	581	6.49e-132	414.0
4412	76	552	4.43e-129	407.0
4413	369	863	5.60e-125	396.0
4414	537	1059	1.08e-120	385.0
4415	622	1060	2.47e-99	328.0
4416	73	384	1.32e-83	285.0
4417	879	1061	3.47e-24	109.0
4418	176	669	8.34e-132	405.0
4419	50	556	3.40e-124	386.0
4420	260	748	8.85e-121	377.0

4421	64	612	1.69e-119	374.0
4422	22	418	9.78e-104	332.0
4423	8	388	2.23e-83	278.0
4424	7	168	1.89e-30	128.0
4425	9	459	9.31e-132	397.0
4426	3	481	9.49e-128	387.0
4427	3	434	3.58e-126	382.0
4428	23	483	3.82e-118	362.0
4429	161	681	1.28e-131	403.0
4430	23	542	1.07e-130	400.0
4431	51	598	1.28e-127	392.0
4432	3	403	1.29e-116	364.0
4433	4	290	2.57e-80	269.0
4434	3	122	2.17e-22	103.0
4435	23	542	2.38e-131	398.0
4436	51	543	3.91e-129	392.0
4437	2	514	1.45e-128	390.0
4438	79	544	4.36e-127	387.0
4439	105	544	1.93e-117	362.0
4440	359	545	6.69e-27	116.0
4441	81	533	3.24e-131	399.0
4442	53	532	5.54e-129	393.0
4443	68	559	4.37e-128	390.0
4444	94	559	6.19e-122	375.0
4445	52	309	1.91e-74	250.0
4446	21	513	3.57e-131	396.0
4447	7	457	6.30e-129	390.0
4448	50	514	1.53e-118	363.0
4449	3	427	2.44e-114	353.0
4450	2	373	5.03e-111	344.0
4451	270	514	2.32e-41	158.0
4452	3065	3587	1.03e-130	426.0
4453	2950	3499	2.40e-129	422.0
4454	4851	5372	1.25e-127	417.0
4455	2726	3279	1.42e-127	417.0
4456	21	541	8.41e-127	414.0
4457	3883	4396	1.83e-126	414.0
4458	4770	5288	3.15e-126	413.0
4459	2701	3219	1.08e-125	411.0
4460	5002	5486	1.94e-125	410.0
4461	4907	5428	5.47e-125	409.0
4462	2783	3303	3.12e-124	407.0
4463	162	709	3.81e-124	407.0

4464	338	823	5.38e-124	406.0
4465	5022	5542	5.49e-124	406.0
4466	1816	2379	1.85e-123	405.0
4467	3763	4258	3.51e-123	404.0
4468	3822	4313	4.73e-123	404.0
4469	2285	2827	7.85e-123	403.0
4470	356	879	8.55e-123	403.0
4471	2280	2803	4.83e-122	401.0
4472	134	653	1.19e-121	400.0
4473	3649	4176	1.36e-121	399.0
4474	1033	1550	1.79e-121	399.0
4475	3485	4004	2.89e-121	399.0
4476	3679	4228	4.12e-121	398.0
4477	3733	4260	1.43e-120	396.0
4478	4573	5148	1.78e-120	396.0
4479	1312	1804	3.04e-120	395.0
4480	920	1412	4.29e-120	395.0
4481	4323	4842	5.10e-120	395.0
4482	1368	1886	5.56e-120	395.0
4483	4018	4510	6.17e-120	395.0
4484	5078	5572	1.29e-119	394.0
4485	2421	2943	2.96e-119	393.0
4486	949	1440	3.11e-119	392.0
4487	2223	2717	3.95e-119	392.0
4488	1340	1831	6.43e-119	392.0
4489	4100	4645	1.91e-118	390.0
4490	3345	3862	4.15e-118	389.0
4491	1879	2407	6.95e-118	389.0
4492	1452	1969	7.79e-118	389.0
4493	4270	4812	8.50e-118	389.0
4494	615	1132	1.23e-117	388.0
4495	3437	3946	1.36e-117	388.0
4496	3373	3890	1.69e-117	387.0
4497	1012	1523	5.17e-117	386.0
4498	4242	4759	1.00e-116	385.0
4499	1480	1972	2.65e-116	384.0
4500	1508	2028	4.94e-115	380.0
4501	4353	4896	5.28e-115	380.0
4502	5106	5594	2.53e-114	378.0
4503	5161	5626	5.40e-106	354.0
4504	2	458	6.45e-97	328.0
4505	5355	5626	1.78e-40	160.0
4506	30	582	1.13e-130	397.0

4507	77	529	2.07e-129	394.0
4508	38	527	3.18e-126	386.0
4509	485	583	3.40e-01	35.4
4510	76	525	1.72e-130	395.0
4511	101	526	3.80e-128	389.0
4512	86	526	1.52e-124	380.0
4513	83	411	8.99e-92	295.0
4514	82	327	8.58e-63	218.0
4515	76	271	2.29e-43	164.0
4516	341	527	1.58e-27	118.0
4517	45	159	4.49e-08	57.4
4518	94	615	2.96e-130	400.0
4519	87	585	4.45e-130	399.0
4520	149	643	6.33e-129	397.0
4521	179	670	5.15e-127	392.0
4522	183	696	2.78e-125	387.0
4523	82	531	6.59e-115	360.0
4524	82	501	2.26e-112	353.0
4525	647	697	1.30e+00	33.5
4526	7	459	3.66e-130	392.0
4527	2	457	1.87e-127	385.0
4528	2	458	2.09e-118	361.0
4529	25	458	3.55e-112	345.0
4530	135	458	4.48e-70	235.0
4531	9	458	3.73e-130	392.0
4532	3	431	3.35e-128	387.0
4533	3	484	1.40e-127	386.0
4534	23	484	1.04e-123	376.0
4535	415	485	1.20e+00	33.5
4536	2	485	3.84e-130	394.0
4537	2	430	4.77e-129	390.0
4538	29	511	3.19e-126	384.0
4539	2	428	4.46e-123	375.0
4540	50	511	6.50e-123	375.0
4541	442	512	4.50e-01	35.0
4542	7	459	4.12e-130	392.0
4543	3	433	5.85e-121	368.0
4544	2	458	1.23e-119	365.0
4545	25	458	1.94e-114	351.0
4546	2	319	1.65e-98	310.0
4547	135	458	1.11e-70	237.0
4548	2	206	1.33e-53	191.0
4549	780	1305	5.68e-130	416.0

4550	727	1277	5.80e-130	416.0
4551	839	1357	9.91e-129	413.0
4552	871	1399	3.03e-125	403.0
4553	188	687	2.78e-121	393.0
4554	107	633	1.88e-119	388.0
4555	643	1161	4.15e-119	387.0
4556	91	574	6.30e-119	386.0
4557	480	993	4.06e-118	384.0
4558	247	770	1.09e-116	380.0
4559	27	475	7.14e-130	392.0
4560	62	501	2.03e-125	381.0
4561	27	474	1.19e-123	376.0
4562	39	501	1.35e-122	374.0
4563	122	501	3.92e-93	297.0
4564	401	501	9.15e-05	47.0
4565	408	502	7.00e-01	34.3
4566	3	487	7.49e-130	404.0
4567	81	599	1.01e-128	400.0
4568	247	739	3.74e-126	394.0
4569	23	545	7.15e-125	390.0
4570	163	713	1.26e-124	390.0
4571	359	851	2.20e-123	387.0
4572	610	850	1.39e-38	154.0
4573	7	459	9.13e-130	394.0
4574	51	546	2.54e-129	392.0
4575	2	520	6.00e-126	384.0
4576	79	593	9.42e-130	395.0
4577	23	511	8.90e-126	385.0
4578	133	593	5.70e-122	375.0
4579	3	234	8.49e-68	233.0
4580	464	590	3.13e-11	67.8
4581	218	728	9.95e-130	402.0
4582	149	672	2.31e-128	398.0
4583	182	673	3.26e-125	390.0
4584	294	783	7.78e-120	376.0
4585	273	756	8.93e-120	376.0
4586	51	560	2.16e-118	372.0
4587	684	785	2.70e-02	38.9
4588	7	484	1.02e-129	392.0
4589	2	460	6.38e-128	387.0
4590	2	486	3.14e-124	377.0
4591	25	485	1.00e-119	366.0
4592	51	485	1.28e-111	345.0

4593	79	625	1.45e-129	405.0
4594	51	569	1.70e-129	405.0
4595	163	682	4.49e-127	399.0
4596	443	935	1.00e-121	385.0
4597	2	513	5.05e-121	383.0
4598	471	936	1.91e-117	373.0
4599	524	936	3.29e-97	320.0
4600	748	937	7.01e-25	111.0
4601	11	499	1.73e-129	391.0
4602	24	476	9.31e-129	389.0
4603	6	448	7.29e-128	387.0
4604	3	446	1.45e-124	379.0
4605	1	422	8.60e-115	353.0
4606	373	495	3.60e-10	63.9
4607	333	850	2.43e-129	418.0
4608	982	1485	1.13e-127	414.0
4609	170	681	8.88e-127	411.0
4610	387	879	1.50e-125	408.0
4611	217	738	1.53e-125	408.0
4612	443	960	1.59e-122	399.0
4613	414	909	5.58e-121	395.0
4614	78	653	9.27e-121	395.0
4615	890	1407	1.01e-120	394.0
4616	1160	1633	6.26e-120	392.0
4617	1143	1689	1.31e-118	389.0
4618	244	767	3.22e-118	387.0
4619	71	542	1.59e-112	372.0
4620	1224	1690	2.62e-111	368.0
4621	66	401	2.21e-90	308.0
4622	1446	1691	2.66e-23	107.0
4623	152	641	2.60e-129	404.0
4624	232	754	6.23e-123	387.0
4625	50	528	1.57e-119	378.0
4626	410	894	2.64e-117	372.0
4627	64	584	1.47e-115	368.0
4628	319	892	1.33e-114	365.0
4629	8	390	5.80e-104	337.0
4630	8	360	2.53e-86	290.0
4631	5	168	4.86e-30	127.0
4632	737	900	3.47e-16	84.0
4633	2	461	2.71e-129	390.0
4634	2	487	5.33e-127	384.0
4635	135	486	7.52e-80	262.0

4636	352	895	3.53e-129	407.0
4637	236	755	5.81e-126	398.0
4638	432	925	9.51e-126	398.0
4639	264	757	1.17e-124	395.0
4640	124	616	2.34e-124	394.0
4641	152	672	3.07e-123	391.0
4642	88	561	1.19e-122	389.0
4643	544	1039	6.84e-122	387.0
4644	96	588	8.03e-121	385.0
4645	488	981	2.34e-120	384.0
4646	516	1028	5.97e-117	374.0
4647	86	447	6.52e-92	307.0
4648	767	1035	3.83e-45	174.0
4649	24	502	5.71e-129	393.0
4650	96	588	8.87e-129	393.0
4651	40	586	3.36e-128	391.0
4652	6	474	1.07e-127	390.0
4653	11	530	8.35e-127	387.0
4654	132	589	9.05e-121	372.0
4655	1	364	2.68e-102	324.0
4656	1	334	8.33e-90	291.0
4657	346	589	1.52e-39	154.0
4658	401	590	9.63e-25	110.0
4659	583	1105	6.52e-129	411.0
4660	190	699	4.17e-128	409.0
4661	22	541	7.07e-127	405.0
4662	2	513	3.17e-126	404.0
4663	49	601	3.38e-126	404.0
4664	758	1270	6.02e-122	392.0
4665	246	793	1.67e-120	389.0
4666	2	458	1.38e-119	386.0
4667	641	1157	2.26e-118	383.0
4668	814	1271	4.88e-117	379.0
4669	891	1271	3.09e-87	297.0
4670	1133	1272	2.75e-24	110.0
4671	1167	1271	2.14e-06	52.4
4672	30	541	1.14e-128	406.0
4673	3	458	5.04e-127	402.0
4674	191	685	4.42e-126	399.0
4675	3	513	2.28e-124	395.0
4676	443	961	1.79e-119	382.0
4677	275	792	6.76e-118	377.0
4678	555	1070	1.42e-117	377.0

4679	529	1044	6.21e-112	362.0
4680	749	1070	2.32e-60	219.0
4681	998	1071	3.60e+00	32.3
4682	104	625	1.17e-128	403.0
4683	51	569	1.29e-128	403.0
4684	2	513	2.00e-125	395.0
4685	358	849	4.09e-125	394.0
4686	1	431	3.62e-123	389.0
4687	471	958	1.37e-120	382.0
4688	415	904	9.38e-119	377.0
4689	886	959	3.10e+00	32.3
4690	2	461	1.77e-128	388.0
4691	2	487	1.62e-126	383.0
4692	135	486	1.37e-78	259.0
4693	722	1214	1.86e-128	411.0
4694	581	1100	4.93e-127	407.0
4695	106	624	8.42e-127	407.0
4696	748	1241	3.32e-124	400.0
4697	32	512	1.07e-123	399.0
4698	54	567	1.20e-123	398.0
4699	778	1296	3.15e-123	397.0
4700	85	570	2.19e-122	395.0
4701	392	906	3.71e-121	392.0
4702	859	1350	1.06e-119	388.0
4703	272	792	7.30e-119	385.0
4704	386	904	6.91e-118	383.0
4705	190	708	7.74e-118	382.0
4706	358	876	1.24e-117	382.0
4707	217	736	2.72e-116	378.0
4708	806	1324	3.45e-115	375.0
4709	3	289	5.27e-79	275.0
4710	364	848	1.99e-128	407.0
4711	48	594	3.94e-127	403.0
4712	32	510	8.61e-125	397.0
4713	588	1072	1.22e-124	397.0
4714	564	1016	4.08e-124	395.0
4715	605	1093	4.51e-123	392.0
4716	412	986	1.48e-122	391.0
4717	496	1014	1.91e-121	388.0
4718	7	372	4.83e-103	339.0
4719	415	907	4.09e-128	410.0
4720	78	597	2.69e-127	408.0
4721	273	821	5.10e-127	407.0

4722	667	1181	1.11e-125	404.0
4723	133	627	7.43e-124	399.0
4724	731	1267	2.28e-118	384.0
4725	815	1320	2.46e-114	373.0
4726	61	485	3.80e-113	370.0
4727	1168	1320	3.24e-18	90.9
4728	1195	1320	2.12e-07	55.8
4729	246	796	4.54e-128	405.0
4730	417	909	2.02e-127	403.0
4731	21	544	6.81e-127	402.0
4732	2	516	7.80e-127	401.0
4733	529	1047	3.28e-124	394.0
4734	501	993	1.15e-123	393.0
4735	464	937	4.45e-122	389.0
4736	135	655	1.59e-121	387.0
4737	51	600	2.89e-121	387.0
4738	585	1074	2.46e-118	379.0
4739	836	1073	2.88e-36	147.0
4740	974	1074	1.00e-02	40.4
4741	1005	1075	3.10e-01	35.8
4742	207	702	6.27e-128	409.0
4743	238	757	5.23e-127	406.0
4744	265	813	3.22e-122	394.0
4745	3	507	9.12e-122	392.0
4746	186	673	9.94e-121	389.0
4747	184	645	6.94e-120	387.0
4748	544	1094	1.77e-119	386.0
4749	488	1010	3.79e-119	385.0
4750	715	1236	4.99e-118	382.0
4751	53	562	7.28e-116	376.0
4752	801	1292	2.38e-113	369.0
4753	824	1292	1.66e-106	351.0
4754	3	481	2.27e-106	350.0
4755	50	501	9.60e-128	388.0
4756	57	507	3.06e-119	366.0
4757	49	472	3.75e-113	350.0
4758	94	507	8.99e-97	308.0
4759	78	597	1.09e-127	391.0
4760	142	624	3.50e-127	390.0
4761	63	541	1.37e-120	373.0
4762	62	345	4.31e-76	256.0
4763	83	557	2.10e-127	389.0
4764	92	573	6.57e-127	387.0

4765	80	531	9.10e-116	358.0
4766	203	573	5.96e-76	254.0
4767	5	471	2.47e-127	385.0
4768	23	471	1.80e-126	382.0
4769	2	446	1.13e-120	368.0
4770	9	471	2.07e-115	354.0
4771	1	334	8.93e-90	288.0
4772	92	471	7.69e-89	285.0
4773	41	531	3.73e-127	387.0
4774	137	559	2.47e-86	281.0
4775	52	390	1.91e-82	271.0
4776	7	458	8.03e-127	384.0
4777	26	486	6.74e-123	374.0
4778	21	487	3.93e-116	357.0
4779	2	400	3.73e-111	343.0
4780	215	488	3.83e-48	177.0
4781	300	821	9.74e-127	402.0
4782	442	941	5.82e-126	400.0
4783	275	793	1.24e-124	397.0
4784	387	879	5.07e-124	395.0
4785	7	485	8.54e-122	389.0
4786	639	1134	9.56e-121	387.0
4787	191	708	1.13e-120	386.0
4788	2	431	3.02e-119	383.0
4789	527	1107	5.59e-118	379.0
4790	2	513	9.49e-118	379.0
4791	619	1109	2.91e-117	377.0
4792	2	515	1.16e-126	387.0
4793	79	571	6.46e-125	382.0
4794	23	543	9.21e-120	369.0
4795	107	574	4.60e-119	367.0
4796	188	574	1.36e-83	275.0
4797	219	576	2.44e-72	245.0
4798	306	574	8.90e-37	146.0
4799	2	443	1.29e-126	382.0
4800	2	425	1.93e-117	358.0
4801	2	401	3.06e-116	355.0
4802	20	425	6.78e-94	297.0
4803	247	428	8.87e-25	108.0
4804	925	1416	3.27e-126	409.0
4805	814	1364	1.01e-124	405.0
4806	282	773	4.27e-122	398.0
4807	113	660	9.11e-122	397.0

4808	395	886	4.58e-120	392.0
4809	423	927	5.45e-119	389.0
4810	367	884	4.48e-118	387.0
4811	339	856	2.76e-117	385.0
4812	598	1108	4.39e-117	384.0
4813	538	1024	1.16e-116	383.0
4814	71	522	2.67e-116	382.0
4815	58	576	5.15e-115	379.0
4816	1150	1670	1.94e-114	377.0
4817	36	521	1.70e-113	374.0
4818	1214	1671	1.46e-105	352.0
4819	16	317	5.33e-68	243.0
4820	1398	1671	1.57e-45	176.0
4821	152	669	9.99e-126	395.0
4822	176	726	1.27e-125	395.0
4823	50	556	3.19e-123	389.0
4824	260	782	1.64e-120	382.0
4825	438	922	4.87e-118	375.0
4826	64	612	7.34e-118	375.0
4827	347	920	1.20e-115	369.0
4828	22	418	2.46e-101	331.0
4829	11	388	1.75e-86	291.0
4830	5	305	4.54e-63	226.0
4831	5	168	6.66e-31	130.0
4832	765	928	3.68e-16	84.0
4833	2	486	1.44e-125	392.0
4834	331	823	1.02e-123	387.0
4835	137	682	1.27e-123	387.0
4836	49	544	1.51e-121	382.0
4837	305	822	2.63e-119	376.0
4838	219	742	2.74e-119	376.0
4839	79	602	2.19e-116	368.0
4840	4	429	7.41e-108	346.0
4841	2	373	1.98e-95	313.0
4842	722	843	6.68e-08	57.4
4843	749	849	1.41e-04	46.6
4844	756	850	1.00e+00	33.9
4845	2	431	4.56e-125	378.0
4846	7	432	1.30e-124	376.0
4847	2	432	1.22e-116	356.0
4848	79	432	1.42e-82	268.0
4849	188	432	2.50e-44	165.0
4850	247	433	1.07e-25	111.0

4851	94	611	9.06e-125	392.0
4852	405	899	3.22e-119	377.0
4853	205	751	5.78e-118	374.0
4854	318	865	1.37e-115	368.0
4855	82	450	2.14e-86	290.0
4856	82	277	1.07e-52	196.0
4857	55	506	1.05e-124	379.0
4858	83	507	5.28e-119	365.0
4859	103	507	1.02e-101	320.0
4860	267	507	4.60e-40	154.0
4861	7	453	1.30e-124	377.0
4862	32	453	4.79e-124	376.0
4863	4	427	2.16e-120	366.0
4864	4	400	3.21e-116	355.0
4865	17	453	8.34e-109	337.0
4866	3	260	1.61e-74	247.0
4867	392	454	1.00e+00	33.9
4868	3	413	1.64e-124	376.0
4869	3	405	9.94e-122	369.0
4870	4	403	1.63e-115	353.0
4871	3	412	2.18e-105	327.0
4872	23	412	2.44e-90	288.0
4873	132	413	3.58e-52	186.0
4874	32	524	7.64e-124	381.0
4875	117	609	7.05e-114	355.0
4876	17	489	4.87e-113	353.0
4877	16	299	1.72e-67	233.0
4878	311	617	7.31e-52	190.0
4879	4	399	9.30e-124	373.0
4880	2	375	2.67e-114	348.0
4881	2	373	1.19e-105	326.0
4882	2	399	2.80e-105	325.0
4883	22	399	3.20e-93	294.0
4884	26	399	6.84e-80	259.0
4885	3	422	1.13e-123	374.0
4886	4	401	1.78e-116	355.0
4887	3	417	2.95e-109	337.0
4888	23	419	4.02e-94	298.0
4889	132	417	1.24e-58	204.0
4890	1005	1497	1.50e-123	402.0
4891	44	569	1.03e-122	400.0
4892	359	907	4.47e-120	392.0
4893	928	1439	5.30e-120	392.0

4894	695	1217	5.68e-120	392.0
4895	105	598	1.54e-119	391.0
4896	897	1385	7.06e-119	389.0
4897	640	1132	1.72e-117	385.0
4898	499	992	1.83e-115	380.0
4899	389	909	4.47e-115	379.0
4900	834	1357	9.40e-115	377.0
4901	1145	1658	1.22e-106	355.0
4902	1343	1660	7.23e-48	182.0
4903	1519	1660	1.19e-06	53.5
4904	330	854	1.66e-123	403.0
4905	648	1158	3.83e-123	402.0
4906	1175	1724	9.68e-122	398.0
4907	82	572	2.39e-120	394.0
4908	367	880	7.12e-119	390.0
4909	248	794	7.19e-119	390.0
4910	469	994	3.22e-118	388.0
4911	889	1448	1.88e-117	386.0
4912	1032	1557	2.09e-117	386.0
4913	696	1220	4.93e-117	385.0
4914	220	738	7.52e-117	384.0
4915	1264	1750	2.61e-115	380.0
4916	1002	1530	1.36e-114	378.0
4917	66	488	4.22e-112	371.0
4918	66	434	3.03e-94	320.0
4919	1595	1743	9.06e-18	89.4
4920	1	414	6.13e-123	372.0
4921	2	411	2.17e-122	370.0
4922	2	414	6.42e-120	363.0
4923	6	414	3.64e-111	341.0
4924	1	366	6.57e-111	340.0
4925	1	338	8.44e-99	309.0
4926	15	414	6.95e-95	299.0
4927	152	414	7.24e-46	169.0
4928	7	541	9.61e-123	377.0
4929	53	571	1.61e-115	358.0
4930	23	568	2.03e-115	358.0
4931	79	596	5.34e-108	339.0
4932	2	377	4.94e-73	247.0
4933	274	596	4.15e-69	236.0
4934	301	590	2.66e-57	204.0
4935	2	428	1.41e-122	371.0
4936	3	402	4.37e-119	362.0

4937	2	375	2.25e-115	352.0
4938	2	428	4.68e-109	336.0
4939	20	428	4.77e-100	313.0
4940	359	429	1.10e+00	33.5
4941	21	478	1.56e-122	373.0
4942	35	470	1.35e-118	362.0
4943	52	478	4.28e-106	330.0
4944	127	478	6.71e-83	270.0
4945	35	385	9.79e-80	261.0
4946	131	478	7.93e-72	241.0
4947	5	283	2.25e-60	210.0
4948	1262	1754	3.31e-122	399.0
4949	1209	1753	1.15e-120	395.0
4950	423	915	3.57e-120	394.0
4951	1179	1671	5.67e-120	393.0
4952	302	773	7.19e-120	393.0
4953	59	607	2.67e-119	391.0
4954	375	858	1.09e-118	389.0
4955	197	691	2.05e-118	389.0
4956	763	1271	1.58e-115	380.0
4957	794	1276	5.21e-114	376.0
4958	873	1363	9.38e-114	375.0
4959	672	1166	1.58e-112	372.0
4960	901	1391	3.34e-110	365.0
4961	934	1419	1.02e-108	361.0
4962	1319	1780	1.13e-106	355.0
4963	1373	1780	4.45e-90	307.0
4964	47	437	2.11e-83	288.0
4965	1596	1780	2.39e-19	94.4
4966	1711	1781	1.40e+00	33.5
4967	3	403	3.73e-122	369.0
4968	2	401	1.91e-116	354.0
4969	2	402	4.05e-101	315.0
4970	23	403	7.71e-93	293.0
4971	300	402	1.18e-04	46.2
4972	1	415	1.33e-121	369.0
4973	4	415	1.03e-117	358.0
4974	22	415	2.22e-114	350.0
4975	1	391	1.44e-110	340.0
4976	9	415	4.73e-103	321.0
4977	91	415	1.68e-70	236.0
4978	344	429	1.50e+00	33.1
4979	3	403	3.19e-121	367.0

4980	2	404	4.60e-119	361.0
4981	7	404	1.81e-117	357.0
4982	2	374	8.97e-106	327.0
4983	2	404	9.03e-103	319.0
4984	51	404	6.36e-83	268.0
4985	160	404	1.38e-44	165.0
4986	219	405	7.95e-26	111.0
4987	1	428	4.08e-121	367.0
4988	3	403	1.05e-115	353.0
4989	2	400	2.51e-115	352.0
4990	2	373	4.72e-107	331.0
4991	2	428	2.27e-104	324.0
4992	78	428	2.62e-78	256.0
4993	105	428	2.74e-66	224.0
4994	2	431	1.33e-120	366.0
4995	7	432	5.32e-118	359.0
4996	2	432	1.96e-105	327.0
4997	2	374	2.11e-105	327.0
4998	23	432	1.16e-97	307.0
4999	245	433	1.34e-24	108.0
5000	2	416	1.99e-120	366.0
5001	5	416	7.34e-115	351.0
5002	2	392	1.56e-111	343.0
5003	23	416	2.23e-109	337.0
5004	10	416	7.10e-103	320.0
5005	1	390	7.16e-99	310.0
5006	64	416	1.57e-73	244.0
5007	345	430	7.80e-01	34.3
5008	3	420	2.63e-120	365.0
5009	6	421	1.40e-117	358.0
5010	1	418	1.82e-117	358.0
5011	1	384	4.42e-106	328.0
5012	11	421	4.24e-101	315.0
5013	38	421	7.07e-89	284.0
5014	381	814	6.43e-120	377.0
5015	190	726	2.23e-111	354.0
5016	216	756	2.37e-110	352.0
5017	168	728	6.06e-110	350.0
5018	78	613	1.81e-109	349.0
5019	30	588	1.21e-106	342.0
5020	2	500	3.57e-100	325.0
5021	7	532	7.92e-100	324.0
5022	684	813	8.75e-11	66.6

5023	707	807	1.00e-04	47.0
5024	4	424	6.86e-120	364.0
5025	11	425	1.21e-111	343.0
5026	29	425	3.20e-106	329.0
5027	16	425	2.25e-93	295.0
5028	4	339	8.62e-88	281.0
5029	71	425	1.51e-75	249.0
5030	112	623	1.37e-119	387.0
5031	140	653	1.35e-117	382.0
5032	196	685	4.38e-117	380.0
5033	96	595	7.59e-116	377.0
5034	216	682	2.87e-109	359.0
5035	392	964	5.54e-99	330.0
5036	88	457	2.55e-94	318.0
5037	764	1291	8.38e-89	302.0
5038	440	1022	2.98e-88	301.0
5039	88	404	1.21e-84	290.0
5040	736	1236	7.48e-82	282.0
5041	749	1316	2.63e-80	278.0
5042	823	1316	1.28e-68	244.0
5043	1099	1317	2.06e-30	129.0
5044	12	479	2.87e-119	365.0
5045	14	465	1.03e-116	358.0
5046	23	489	9.99e-112	345.0
5047	31	489	3.36e-103	323.0
5048	67	490	8.27e-95	301.0
5049	15	382	5.06e-92	294.0
5050	11	242	7.90e-56	198.0
5051	13	241	3.39e-51	186.0
5052	76	569	5.51e-119	369.0
5053	89	567	3.30e-117	364.0
5054	140	642	8.88e-115	358.0
5055	64	485	1.52e-106	337.0
5056	273	642	2.53e-76	257.0
5057	60	317	1.03e-70	242.0
5058	64	287	8.65e-54	196.0
5059	101	606	2.46e-118	367.0
5060	41	563	5.36e-117	363.0
5061	120	617	7.46e-117	363.0
5062	32	396	3.85e-93	301.0
5063	323	619	4.93e-54	196.0
5064	497	949	5.18e-118	380.0
5065	540	1059	4.78e-116	375.0

5066	568	1102	5.26e-114	370.0
5067	484	977	4.82e-113	367.0
5068	613	1143	6.44e-109	356.0
5069	680	1173	7.96e-103	339.0
5070	470	837	4.82e-95	318.0
5071	256	807	2.99e-85	291.0
5072	764	1196	3.32e-84	288.0
5073	94	641	7.86e-76	265.0
5074	80	358	8.24e-61	221.0
5075	80	358	1.09e-58	215.0
5076	80	359	1.65e-53	199.0
5077	80	303	5.04e-47	180.0
5078	83	358	6.82e-46	176.0
5079	80	277	3.05e-37	150.0
5080	14	487	7.43e-118	362.0
5081	7	458	3.77e-111	345.0
5082	154	510	7.08e-76	253.0
5083	6	290	8.82e-76	252.0
5084	3	235	4.37e-51	186.0
5085	275	509	1.86e-31	130.0
5086	6	149	6.49e-27	116.0
5087	302	510	6.34e-24	107.0
5088	384	506	1.02e-09	62.8
5089	69	510	1.61e-117	362.0
5090	125	533	3.64e-100	317.0
5091	62	467	8.91e-100	316.0
5092	101	533	1.42e-98	313.0
5093	60	370	3.16e-78	259.0
5094	57	289	7.68e-50	182.0
5095	57	216	7.12e-30	125.0
5096	60	477	1.98e-117	360.0
5097	63	480	1.27e-116	357.0
5098	58	419	8.44e-101	317.0
5099	68	480	2.28e-98	310.0
5100	39	391	1.25e-91	293.0
5101	179	480	9.23e-61	211.0
5102	318	480	8.06e-19	91.3
5103	69	510	2.04e-117	362.0
5104	125	538	2.48e-102	322.0
5105	101	538	1.38e-100	318.0
5106	62	467	8.96e-100	316.0
5107	60	370	3.80e-78	259.0
5108	57	289	7.84e-50	182.0

5109	57	216	7.44e-30	125.0
5110	2	372	5.51e-117	355.0
5111	2	347	1.04e-111	341.0
5112	2	372	8.70e-95	297.0
5113	107	372	1.08e-52	186.0
5114	162	372	9.42e-39	148.0
5115	4	435	7.03e-117	357.0
5116	11	435	2.56e-115	353.0
5117	13	408	1.17e-112	346.0
5118	32	435	6.24e-100	313.0
5119	57	435	8.95e-91	289.0
5120	12	211	2.18e-43	162.0
5121	278	435	3.86e-19	91.7
5122	2	407	7.43e-117	355.0
5123	4	391	1.70e-113	347.0
5124	7	391	8.23e-108	332.0
5125	4	391	1.53e-93	295.0
5126	13	391	5.27e-87	278.0
5127	2	279	5.15e-81	263.0
5128	263	391	2.95e-08	57.8
5129	7	408	1.07e-116	355.0
5130	3	407	1.16e-116	355.0
5131	2	408	8.65e-116	353.0
5132	2	350	2.12e-104	323.0
5133	2	408	1.27e-101	316.0
5134	164	408	1.88e-44	165.0
5135	223	409	9.37e-26	111.0
5136	11	463	1.78e-116	357.0
5137	1	413	8.20e-113	347.0
5138	11	442	1.74e-109	338.0
5139	2	463	1.73e-105	328.0
5140	12	375	7.72e-104	324.0
5141	32	463	1.14e-90	290.0
5142	5	272	1.17e-67	229.0
5143	49	490	1.99e-116	360.0
5144	54	539	1.32e-114	355.0
5145	67	521	9.69e-114	353.0
5146	46	462	7.01e-110	343.0
5147	44	435	4.45e-104	328.0
5148	44	433	4.37e-99	315.0
5149	525	1041	2.84e-116	380.0
5150	466	958	5.51e-116	380.0
5151	325	846	2.16e-115	378.0

5152	439	930	5.30e-114	374.0
5153	299	817	5.25e-113	371.0
5154	67	566	1.47e-111	367.0
5155	131	677	6.84e-111	365.0
5156	59	537	2.01e-110	364.0
5157	243	761	2.22e-110	364.0
5158	854	1405	4.29e-110	363.0
5159	1001	1490	7.83e-108	357.0
5160	217	733	7.62e-107	354.0
5161	973	1462	1.82e-105	350.0
5162	604	1126	2.56e-104	347.0
5163	923	1434	2.48e-102	342.0
5164	58	341	2.26e-63	229.0
5165	7	459	2.95e-116	358.0
5166	35	484	5.77e-114	352.0
5167	22	484	1.44e-104	328.0
5168	2	401	7.52e-99	313.0
5169	207	723	9.31e-116	364.0
5170	143	640	1.35e-114	361.0
5171	67	585	5.79e-114	359.0
5172	113	612	3.16e-113	357.0
5173	28	555	5.54e-113	357.0
5174	234	725	1.84e-112	355.0
5175	252	750	1.26e-108	345.0
5176	12	499	9.53e-106	338.0
5177	8	326	1.31e-75	258.0
5178	3	123	5.09e-16	83.2
5179	32	473	1.23e-115	357.0
5180	37	522	7.77e-114	352.0
5181	50	504	5.06e-113	350.0
5182	29	445	4.60e-109	340.0
5183	27	418	3.23e-103	325.0
5184	27	416	2.12e-98	312.0
5185	30	451	2.85e-115	353.0
5186	33	445	5.66e-100	313.0
5187	23	391	1.14e-95	302.0
5188	16	365	8.53e-84	271.0
5189	94	445	1.46e-71	239.0
5190	324	450	1.49e-18	90.1
5191	25	456	1.25e-114	353.0
5192	28	475	1.10e-110	342.0
5193	131	475	6.58e-64	220.0
5194	27	458	1.78e-114	367.0

5195	531	1003	7.53e-114	365.0
5196	6	495	8.14e-113	363.0
5197	413	949	6.11e-111	358.0
5198	245	781	1.19e-107	349.0
5199	301	837	1.21e-106	346.0
5200	521	977	1.27e-106	346.0
5201	52	615	1.13e-101	333.0
5202	133	695	8.74e-100	328.0
5203	874	1008	1.09e-10	66.2
5204	1	437	1.80e-114	354.0
5205	2	494	2.46e-114	354.0
5206	85	549	1.09e-112	350.0
5207	141	531	1.26e-82	271.0
5208	250	549	3.04e-54	195.0
5209	69	645	2.65e-114	358.0
5210	46	563	1.19e-102	327.0
5211	152	667	5.26e-101	323.0
5212	44	366	9.06e-81	270.0
5213	115	614	2.67e-114	358.0
5214	97	612	2.97e-114	358.0
5215	202	699	1.76e-112	354.0
5216	171	673	1.88e-111	351.0
5217	61	584	4.91e-110	347.0
5218	46	528	9.27e-102	326.0
5219	24	301	4.51e-59	211.0
5220	121	614	2.91e-114	356.0
5221	101	587	3.86e-112	350.0
5222	31	524	3.15e-108	340.0
5223	34	567	6.37e-108	340.0
5224	22	440	4.18e-89	290.0
5225	205	615	1.19e-85	281.0
5226	22	330	4.43e-72	245.0
5227	1	386	1.67e-113	347.0
5228	3	413	1.78e-113	347.0
5229	1	413	4.39e-113	346.0
5230	6	413	5.37e-90	286.0
5231	61	413	1.79e-75	248.0
5232	1	245	3.06e-62	213.0
5233	101	589	4.77e-113	352.0
5234	34	542	7.28e-112	349.0
5235	42	562	9.61e-112	348.0
5236	31	499	2.33e-111	348.0
5237	24	443	3.23e-97	311.0

5238	178	590	2.79e-89	290.0
5239	22	359	4.77e-79	263.0
5240	14	433	6.09e-113	347.0
5241	1	423	3.14e-107	332.0
5242	12	433	3.59e-99	311.0
5243	23	434	2.31e-94	299.0
5244	15	354	7.37e-85	274.0
5245	31	434	2.91e-82	267.0
5246	13	325	2.60e-79	259.0
5247	1	389	4.77e-112	342.0
5248	3	389	6.42e-110	337.0
5249	1	388	7.47e-107	329.0
5250	3	389	2.75e-100	312.0
5251	1	359	1.03e-90	287.0
5252	26	389	1.44e-90	287.0
5253	35	389	3.01e-79	257.0
5254	174	389	2.21e-33	133.0
5255	204	390	2.39e-27	115.0
5256	104	553	7.39e-112	348.0
5257	91	553	1.16e-111	347.0
5258	78	471	4.46e-111	346.0
5259	86	528	4.99e-110	343.0
5260	83	512	2.22e-108	339.0
5261	75	358	4.59e-70	238.0
5262	204	556	3.21e-58	206.0
5263	104	553	7.39e-112	348.0
5264	91	553	1.16e-111	347.0
5265	78	471	4.46e-111	346.0
5266	86	528	4.99e-110	343.0
5267	83	512	2.22e-108	339.0
5268	75	358	4.59e-70	238.0
5269	204	556	3.21e-58	206.0
5270	74	597	8.48e-112	351.0
5271	59	511	2.80e-107	339.0
5272	62	432	4.36e-92	299.0
5273	62	427	4.93e-89	291.0
5274	58	315	1.66e-66	231.0
5275	87	536	1.35e-111	347.0
5276	76	510	1.31e-109	341.0
5277	77	536	1.70e-100	318.0
5278	213	536	1.04e-52	191.0
5279	80	313	3.83e-52	189.0
5280	87	536	1.35e-111	347.0

5281	76	510	1.31e-109	341.0
5282	77	536	1.70e-100	318.0
5283	213	536	1.04e-52	191.0
5284	80	313	3.83e-52	189.0
5285	87	536	1.35e-111	347.0
5286	76	510	1.31e-109	341.0
5287	77	536	1.70e-100	318.0
5288	213	536	1.04e-52	191.0
5289	80	313	3.83e-52	189.0
5290	47	425	1.49e-111	343.0
5291	47	417	3.03e-108	335.0
5292	47	424	1.10e-104	326.0
5293	47	415	2.15e-98	309.0
5294	62	424	1.38e-82	268.0
5295	46	302	2.63e-77	254.0
5296	147	425	6.47e-53	189.0
5297	256	424	1.29e-20	96.7
5298	1	365	2.54e-111	340.0
5299	1	373	3.43e-110	337.0
5300	4	373	2.04e-108	333.0
5301	1	367	3.82e-104	322.0
5302	17	373	1.32e-94	297.0
5303	13	373	8.19e-88	279.0
5304	119	647	7.10e-111	352.0
5305	173	704	1.94e-109	348.0
5306	46	410	2.78e-100	324.0
5307	63	619	6.44e-100	323.0
5308	51	418	1.92e-99	322.0
5309	47	534	8.66e-96	312.0
5310	41	332	6.71e-78	265.0
5311	476	728	1.49e-68	239.0
5312	342	728	4.99e-67	235.0
5313	631	734	1.29e-05	49.7
5314	76	496	8.61e-111	343.0
5315	72	470	4.97e-99	313.0
5316	23	496	1.60e-97	309.0
5317	73	495	9.70e-111	345.0
5318	78	534	1.05e-107	337.0
5319	74	465	2.35e-101	320.0
5320	99	514	1.11e-100	318.0
5321	85	514	5.32e-97	309.0
5322	224	517	2.47e-49	181.0
5323	63	432	1.40e-110	340.0

5324	66	431	5.17e-110	339.0
5325	63	432	3.04e-105	327.0
5326	66	373	4.52e-87	279.0
5327	62	345	9.62e-80	260.0
5328	78	432	2.79e-78	256.0
5329	267	433	1.05e-25	111.0
5330	272	433	4.13e-19	91.7
5331	28	443	2.17e-110	340.0
5332	31	443	4.11e-105	327.0
5333	26	443	8.95e-103	320.0
5334	49	443	2.08e-95	301.0
5335	26	377	1.21e-89	286.0
5336	21	304	1.90e-72	241.0
5337	20	276	8.27e-67	226.0
5338	84	443	4.21e-65	222.0
5339	44	526	1.32e-109	342.0
5340	59	550	1.55e-109	342.0
5341	285	556	7.39e-41	158.0
5342	74	562	1.51e-109	343.0
5343	37	479	9.13e-106	333.0
5344	101	582	1.06e-99	317.0
5345	128	582	7.94e-97	310.0
5346	27	395	2.26e-78	261.0
5347	210	582	6.11e-67	231.0
5348	294	583	5.60e-46	173.0
5349	2	253	1.25e-33	137.0
5350	378	588	1.67e-18	90.9
5351	489	580	2.00e-03	42.7
5352	36	527	2.98e-109	341.0
5353	50	526	3.95e-104	328.0
5354	93	550	1.34e-99	316.0
5355	21	443	7.55e-97	309.0
5356	22	386	1.73e-75	253.0
5357	21	330	6.75e-63	219.0
5358	230	550	9.68e-54	194.0
5359	314	553	1.14e-35	142.0
5360	439	550	5.97e-04	44.3
5361	55	540	3.33e-109	341.0
5362	76	563	2.32e-98	313.0
5363	97	563	6.08e-86	280.0
5364	52	306	6.11e-72	243.0
5365	53	281	1.17e-62	218.0
5366	208	563	5.36e-54	195.0

5367	55	540	3.33e-109	341.0
5368	76	563	2.32e-98	313.0
5369	97	563	6.08e-86	280.0
5370	52	306	6.11e-72	243.0
5371	53	281	1.17e-62	218.0
5372	208	563	5.36e-54	195.0
5373	590	1040	3.81e-109	353.0
5374	593	1033	3.69e-86	291.0
5375	75	405	4.29e-80	275.0
5376	585	895	2.57e-79	273.0
5377	94	397	8.20e-65	232.0
5378	84	396	3.02e-60	219.0
5379	97	401	2.99e-47	180.0
5380	293	421	3.55e-16	84.0
5381	2	359	7.00e-109	333.0
5382	2	362	1.16e-107	330.0
5383	2	337	1.21e-101	315.0
5384	4	362	4.58e-98	305.0
5385	2	307	4.92e-87	277.0
5386	4	362	1.26e-81	263.0
5387	15	362	7.39e-76	248.0
5388	123	360	9.80e-41	153.0
5389	459	977	1.28e-108	352.0
5390	177	673	1.79e-105	343.0
5391	94	587	1.80e-103	338.0
5392	38	531	1.70e-102	335.0
5393	107	585	3.47e-102	335.0
5394	151	642	3.73e-101	332.0
5395	26	487	1.69e-98	325.0
5396	517	987	1.26e-95	317.0
5397	570	1009	2.12e-83	284.0
5398	627	1016	4.36e-67	238.0
5399	653	1009	9.13e-59	214.0
5400	61	484	3.62e-108	337.0
5401	44	502	2.37e-106	332.0
5402	54	429	5.81e-71	239.0
5403	186	493	7.88e-50	182.0
5404	48	260	3.83e-44	166.0
5405	326	502	4.90e-22	101.0
5406	61	484	3.62e-108	337.0
5407	44	502	2.37e-106	332.0
5408	54	429	5.81e-71	239.0
5409	186	493	7.88e-50	182.0

5410	48	260	3.83e-44	166.0
5411	326	502	4.90e-22	101.0
5412	520	1074	8.12e-107	350.0
5413	119	647	1.01e-106	350.0
5414	548	1075	5.43e-106	348.0
5415	173	704	2.56e-105	346.0
5416	596	1130	1.15e-101	336.0
5417	604	1158	4.98e-101	335.0
5418	799	1185	3.99e-100	332.0
5419	46	410	1.27e-96	323.0
5420	63	619	3.08e-96	322.0
5421	51	418	8.80e-96	320.0
5422	47	410	9.43e-91	306.0
5423	342	906	5.71e-85	290.0
5424	41	332	2.51e-75	263.0
5425	928	1185	8.34e-40	158.0
5426	1066	1185	7.87e-04	44.3
5427	1086	1187	2.10e-02	39.7
5428	66	547	9.60e-107	334.0
5429	57	340	1.20e-62	218.0
5430	55	255	1.18e-44	168.0
5431	57	563	1.56e-106	336.0
5432	151	609	7.04e-83	274.0
5433	41	476	4.70e-79	264.0
5434	57	563	3.32e-106	335.0
5435	151	609	1.46e-82	273.0
5436	41	476	8.69e-79	263.0
5437	29	446	4.67e-106	331.0
5438	37	473	2.62e-104	327.0
5439	38	482	2.53e-103	324.0
5440	37	482	3.77e-99	313.0
5441	27	389	4.57e-98	310.0
5442	74	484	9.46e-92	294.0
5443	25	332	6.58e-75	249.0
5444	252	482	5.18e-32	131.0
5445	51	410	8.73e-106	327.0
5446	51	411	1.46e-104	324.0
5447	51	410	4.80e-100	312.0
5448	51	388	6.82e-97	304.0
5449	51	386	3.33e-92	292.0
5450	45	332	4.84e-82	266.0
5451	63	410	1.13e-75	249.0
5452	33	219	2.19e-44	165.0

5453	173	411	2.07e-42	159.0
5454	41	108	5.17e-07	53.9
5455	51	410	8.73e-106	327.0
5456	51	411	1.46e-104	324.0
5457	51	410	4.80e-100	312.0
5458	51	388	6.82e-97	304.0
5459	51	386	3.33e-92	292.0
5460	45	332	4.84e-82	266.0
5461	63	410	1.13e-75	249.0
5462	33	219	2.19e-44	165.0
5463	173	411	2.07e-42	159.0
5464	41	108	5.17e-07	53.9
5465	51	410	8.73e-106	327.0
5466	51	411	1.46e-104	324.0
5467	51	410	4.80e-100	312.0
5468	51	388	6.82e-97	304.0
5469	51	386	3.33e-92	292.0
5470	45	332	4.84e-82	266.0
5471	63	410	1.13e-75	249.0
5472	33	219	2.19e-44	165.0
5473	173	411	2.07e-42	159.0
5474	41	108	5.17e-07	53.9
5475	51	410	8.73e-106	327.0
5476	51	411	1.46e-104	324.0
5477	51	410	4.80e-100	312.0
5478	51	388	6.82e-97	304.0
5479	51	386	3.33e-92	292.0
5480	45	332	4.84e-82	266.0
5481	63	410	1.13e-75	249.0
5482	33	219	2.19e-44	165.0
5483	173	411	2.07e-42	159.0
5484	41	108	5.17e-07	53.9
5485	51	410	8.73e-106	327.0
5486	51	411	1.46e-104	324.0
5487	51	410	4.80e-100	312.0
5488	51	388	6.82e-97	304.0
5489	51	386	3.33e-92	292.0
5490	45	332	4.84e-82	266.0
5491	63	410	1.13e-75	249.0
5492	33	219	2.19e-44	165.0
5493	173	411	2.07e-42	159.0
5494	41	108	5.17e-07	53.9
5495	51	410	8.73e-106	327.0

5496	51	411	1.46e-104	324.0
5497	51	410	4.80e-100	312.0
5498	51	388	6.82e-97	304.0
5499	51	386	3.33e-92	292.0
5500	45	332	4.84e-82	266.0
5501	63	410	1.13e-75	249.0
5502	33	219	2.19e-44	165.0
5503	173	411	2.07e-42	159.0
5504	41	108	5.17e-07	53.9
5505	51	410	8.73e-106	327.0
5506	51	411	1.46e-104	324.0
5507	51	410	4.80e-100	312.0
5508	51	388	6.82e-97	304.0
5509	51	386	3.33e-92	292.0
5510	45	332	4.84e-82	266.0
5511	63	410	1.13e-75	249.0
5512	33	219	2.19e-44	165.0
5513	173	411	2.07e-42	159.0
5514	41	108	5.17e-07	53.9
5515	51	410	8.73e-106	327.0
5516	51	411	1.46e-104	324.0
5517	51	410	4.80e-100	312.0
5518	51	388	6.82e-97	304.0
5519	51	386	3.33e-92	292.0
5520	45	332	4.84e-82	266.0
5521	63	410	1.13e-75	249.0
5522	33	219	2.19e-44	165.0
5523	173	411	2.07e-42	159.0
5524	41	108	5.17e-07	53.9
5525	51	410	8.73e-106	327.0
5526	51	411	1.46e-104	324.0
5527	51	410	4.80e-100	312.0
5528	51	388	6.82e-97	304.0
5529	51	386	3.33e-92	292.0
5530	45	332	4.84e-82	266.0
5531	63	410	1.13e-75	249.0
5532	33	219	2.19e-44	165.0
5533	173	411	2.07e-42	159.0
5534	41	108	5.17e-07	53.9
5535	51	410	8.73e-106	327.0
5536	51	411	1.46e-104	324.0
5537	51	410	4.80e-100	312.0
5538	51	388	6.82e-97	304.0

5539	51	386	3.33e-92	292.0
5540	45	332	4.84e-82	266.0
5541	63	410	1.13e-75	249.0
5542	33	219	2.19e-44	165.0
5543	173	411	2.07e-42	159.0
5544	41	108	5.17e-07	53.9
5545	51	410	8.73e-106	327.0
5546	51	411	1.46e-104	324.0
5547	51	410	4.80e-100	312.0
5548	51	388	6.82e-97	304.0
5549	51	386	3.33e-92	292.0
5550	45	332	4.84e-82	266.0
5551	63	410	1.13e-75	249.0
5552	33	219	2.19e-44	165.0
5553	173	411	2.07e-42	159.0
5554	41	108	5.17e-07	53.9
5555	51	410	1.08e-105	327.0
5556	51	411	1.89e-104	324.0
5557	51	410	5.70e-100	312.0
5558	51	388	9.09e-97	304.0
5559	51	386	4.35e-92	292.0
5560	45	332	5.92e-82	265.0
5561	63	410	1.32e-75	249.0
5562	33	219	2.52e-44	164.0
5563	173	411	2.17e-42	159.0
5564	41	108	5.54e-07	53.9
5565	51	410	1.08e-105	327.0
5566	51	411	1.89e-104	324.0
5567	51	410	5.70e-100	312.0
5568	51	388	9.09e-97	304.0
5569	51	386	4.35e-92	292.0
5570	45	332	5.92e-82	265.0
5571	63	410	1.32e-75	249.0
5572	33	219	2.52e-44	164.0
5573	173	411	2.17e-42	159.0
5574	41	108	5.54e-07	53.9
5575	51	410	1.08e-105	327.0
5576	51	411	1.89e-104	324.0
5577	51	410	5.70e-100	312.0
5578	51	388	9.09e-97	304.0
5579	51	386	4.35e-92	292.0
5580	45	332	5.92e-82	265.0
5581	63	410	1.32e-75	249.0

5582	33	219	2.52e-44	164.0
5583	173	411	2.17e-42	159.0
5584	41	108	5.54e-07	53.9
5585	59	522	2.48e-105	341.0
5586	302	790	3.77e-105	341.0
5587	74	593	2.16e-101	331.0
5588	441	932	2.37e-101	330.0
5589	381	914	1.63e-99	326.0
5590	58	341	1.29e-55	204.0
5591	830	924	2.16e-04	45.8
5592	46	410	5.62e-105	327.0
5593	51	413	3.98e-104	324.0
5594	47	410	1.66e-98	310.0
5595	51	388	2.25e-96	304.0
5596	41	332	7.81e-82	266.0
5597	63	410	4.39e-75	249.0
5598	257	407	2.75e-18	89.4
5599	13	373	5.96e-105	324.0
5600	13	356	1.87e-101	315.0
5601	2	373	3.15e-97	304.0
5602	13	354	1.83e-95	300.0
5603	9	328	6.42e-89	283.0
5604	8	373	1.88e-80	260.0
5605	32	373	6.17e-70	233.0
5606	141	373	2.04e-36	142.0
5607	358	902	8.17e-105	339.0
5608	349	881	1.99e-101	330.0
5609	55	482	2.21e-101	330.0
5610	77	654	7.54e-101	328.0
5611	57	626	1.36e-97	320.0
5612	170	740	1.58e-97	320.0
5613	55	234	2.04e-42	166.0
5614	54	232	8.53e-35	142.0
5615	32	426	8.31e-105	325.0
5616	32	425	1.88e-104	324.0
5617	41	426	1.22e-98	309.0
5618	17	396	6.75e-94	297.0
5619	44	426	3.11e-76	251.0
5620	66	428	9.72e-105	325.0
5621	66	402	1.39e-100	314.0
5622	66	375	2.46e-92	293.0
5623	91	428	1.00e-87	281.0
5624	78	428	1.67e-78	257.0

5625	62	345	1.73e-77	254.0
5626	161	428	8.04e-50	180.0
5627	361	429	5.50e-02	37.7
5628	256	814	1.29e-104	337.0
5629	230	758	1.29e-102	332.0
5630	342	840	2.08e-101	328.0
5631	183	701	3.04e-101	328.0
5632	150	674	2.33e-97	318.0
5633	139	547	6.36e-86	287.0
5634	444	840	4.31e-69	241.0
5635	143	433	6.76e-52	193.0
5636	214	775	2.75e-104	335.0
5637	96	689	6.69e-103	331.0
5638	26	551	3.04e-101	327.0
5639	39	580	7.74e-100	323.0
5640	51	607	1.01e-97	317.0
5641	379	776	1.18e-72	250.0
5642	29	312	4.10e-66	232.0
5643	27	307	1.43e-61	219.0
5644	704	777	6.60e+00	31.2
5645	18	397	3.10e-104	323.0
5646	35	397	1.21e-100	313.0
5647	18	372	9.38e-97	303.0
5648	35	397	9.51e-93	293.0
5649	60	397	3.42e-86	276.0
5650	47	397	1.09e-77	254.0
5651	35	286	1.15e-59	206.0
5652	102	391	4.26e-58	202.0
5653	11	258	1.09e-53	190.0
5654	44	501	4.36e-104	330.0
5655	29	514	1.11e-103	329.0
5656	109	601	4.37e-103	327.0
5657	30	460	1.63e-91	297.0
5658	138	621	7.43e-90	293.0
5659	221	621	2.30e-72	246.0
5660	44	501	4.36e-104	330.0
5661	29	514	1.11e-103	329.0
5662	109	601	4.37e-103	327.0
5663	30	460	1.63e-91	297.0
5664	138	621	7.43e-90	293.0
5665	221	621	2.30e-72	246.0
5666	44	501	4.36e-104	330.0
5667	29	514	1.11e-103	329.0

5668	109	601	4.37e-103	327.0
5669	30	460	1.63e-91	297.0
5670	138	621	7.43e-90	293.0
5671	221	621	2.30e-72	246.0
5672	44	501	4.36e-104	330.0
5673	29	514	1.11e-103	329.0
5674	109	601	4.37e-103	327.0
5675	30	460	1.63e-91	297.0
5676	138	621	7.43e-90	293.0
5677	221	621	2.30e-72	246.0
5678	176	577	6.11e-104	328.0
5679	161	570	2.76e-98	314.0
5680	190	570	5.56e-74	249.0
5681	358	570	3.99e-26	114.0
5682	80	534	7.28e-104	327.0
5683	49	506	1.08e-102	323.0
5684	69	536	1.67e-101	320.0
5685	55	451	5.46e-92	295.0
5686	55	449	5.75e-90	290.0
5687	317	537	1.22e-39	154.0
5688	281	841	8.88e-104	336.0
5689	365	897	2.62e-100	327.0
5690	338	883	3.97e-97	318.0
5691	226	785	1.75e-95	314.0
5692	30	476	1.29e-93	309.0
5693	137	674	6.48e-92	305.0
5694	26	435	3.21e-90	300.0
5695	198	730	4.67e-89	297.0
5696	22	464	6.56e-85	286.0
5697	55	590	7.35e-79	269.0
5698	546	897	7.22e-68	239.0
5699	685	898	4.22e-29	124.0
5700	95	496	9.92e-104	325.0
5701	80	489	2.73e-98	311.0
5702	109	489	3.80e-74	248.0
5703	277	489	3.44e-26	114.0
5704	95	496	9.92e-104	325.0
5705	80	489	2.73e-98	311.0
5706	109	489	3.80e-74	248.0
5707	277	489	3.44e-26	114.0
5708	13	422	1.60e-103	322.0
5709	21	416	4.93e-99	310.0
5710	22	395	1.46e-96	304.0

5711	33	416	1.13e-94	299.0
5712	3	375	7.67e-88	281.0
5713	50	423	2.01e-84	272.0
5714	37	416	2.69e-73	243.0
5715	120	418	2.70e-50	181.0
5716	79	439	2.91e-103	322.0
5717	79	439	1.87e-93	296.0
5718	83	439	2.11e-91	291.0
5719	79	413	8.78e-91	289.0
5720	79	388	4.68e-87	280.0
5721	77	358	2.56e-80	262.0
5722	89	439	4.73e-71	238.0
5723	144	441	2.32e-58	204.0
5724	60	452	3.63e-103	322.0
5725	58	415	6.58e-90	287.0
5726	77	452	3.28e-80	262.0
5727	55	367	4.81e-76	251.0
5728	71	453	2.40e-73	244.0
5729	82	471	7.66e-103	322.0
5730	32	471	3.96e-100	315.0
5731	82	446	7.95e-98	309.0
5732	82	421	1.34e-97	308.0
5733	1	471	4.64e-86	278.0
5734	178	474	7.49e-54	192.0
5735	49	532	7.85e-103	336.0
5736	112	615	1.62e-99	327.0
5737	120	644	1.50e-98	325.0
5738	28	503	8.07e-93	309.0
5739	347	907	4.89e-83	283.0
5740	430	974	1.82e-81	278.0
5741	495	1000	1.32e-74	259.0
5742	22	420	1.04e-71	251.0
5743	22	315	1.53e-65	234.0
5744	731	1000	3.86e-35	143.0
5745	906	1001	5.10e+00	32.0
5746	94	517	1.53e-102	324.0
5747	103	541	1.33e-99	317.0
5748	108	541	1.31e-88	288.0
5749	92	403	3.56e-78	260.0
5750	328	541	7.87e-22	101.0
5751	363	536	1.80e-14	78.2
5752	94	517	1.53e-102	324.0
5753	103	541	1.33e-99	317.0

5754	108	541	1.31e-88	288.0
5755	92	403	3.56e-78	260.0
5756	328	541	7.87e-22	101.0
5757	363	536	1.80e-14	78.2
5758	56	418	2.90e-102	318.0
5759	60	418	1.72e-96	303.0
5760	71	418	5.06e-95	300.0
5761	56	392	3.68e-94	297.0
5762	68	418	2.07e-80	261.0
5763	52	335	3.16e-71	237.0
5764	318	419	3.00e-03	41.6
5765	40	434	5.84e-102	318.0
5766	42	435	4.80e-99	311.0
5767	65	434	3.70e-76	251.0
5768	37	349	2.09e-75	249.0
5769	40	378	5.56e-75	248.0
5770	53	435	3.90e-70	235.0
5771	37	259	2.05e-46	171.0
5772	164	434	1.12e-42	160.0
5773	264	434	1.67e-23	105.0
5774	44	363	6.17e-102	317.0
5775	44	355	6.69e-96	301.0
5776	41	362	2.26e-79	258.0
5777	54	362	5.16e-66	223.0
5778	82	363	2.85e-55	194.0
5779	74	593	1.77e-101	323.0
5780	60	538	7.24e-100	318.0
5781	284	601	5.18e-48	179.0
5782	57	300	1.22e-43	167.0
5783	53	389	2.18e-101	316.0
5784	53	415	7.68e-100	312.0
5785	53	388	1.04e-94	298.0
5786	31	415	1.08e-90	288.0
5787	65	415	4.60e-78	255.0
5788	49	334	5.19e-74	244.0
5789	92	416	3.08e-67	226.0
5790	315	415	3.14e-04	45.1
5791	151	681	2.61e-101	339.0
5792	261	792	2.13e-98	331.0
5793	925	1457	2.39e-97	328.0
5794	1046	1567	4.29e-97	327.0
5795	1018	1542	1.94e-96	325.0
5796	289	845	6.16e-96	324.0

5797	113	656	4.42e-95	322.0
5798	998	1513	2.11e-93	317.0
5799	906	1428	7.00e-93	315.0
5800	964	1485	3.58e-92	313.0
5801	233	765	3.00e-91	310.0
5802	637	1200	3.30e-85	293.0
5803	733	1226	5.11e-79	275.0
5804	110	442	1.38e-78	274.0
5805	110	417	3.30e-76	267.0
5806	104	387	1.92e-55	205.0
5807	1385	1550	2.81e-21	100.0
5808	94	591	4.52e-101	323.0
5809	150	644	1.63e-97	314.0
5810	196	666	2.95e-93	303.0
5811	58	364	1.08e-57	207.0
5812	52	337	2.05e-45	172.0
5813	58	223	1.46e-14	78.6
5814	54	548	8.58e-101	320.0
5815	46	442	3.93e-96	308.0
5816	44	359	2.67e-79	263.0
5817	117	571	1.72e-78	261.0
5818	211	573	1.01e-59	211.0
5819	44	301	2.62e-52	190.0
5820	284	571	1.08e-37	149.0
5821	63	401	1.23e-100	313.0
5822	63	375	3.44e-96	302.0
5823	64	348	5.65e-85	273.0
5824	44	401	4.17e-77	252.0
5825	63	264	1.98e-58	202.0
5826	134	401	5.22e-50	180.0
5827	334	402	6.90e-02	37.4
5828	3	319	1.61e-100	310.0
5829	3	318	5.72e-99	306.0
5830	2	319	2.03e-70	232.0
5831	22	319	8.53e-64	214.0
5832	76	319	1.09e-43	160.0
5833	131	319	5.98e-27	113.0
5834	162	320	3.41e-23	102.0
5835	2	120	1.76e-21	97.1
5836	100	598	8.96e-100	318.0
5837	91	574	9.90e-97	310.0
5838	105	598	7.74e-82	271.0
5839	132	598	1.48e-73	249.0

5840	81	379	1.84e-69	238.0
5841	82	289	3.15e-51	188.0
5842	93	355	5.83e-51	187.0
5843	438	599	3.33e-28	120.0
5844	112	448	1.94e-99	312.0
5845	112	423	2.32e-97	307.0
5846	114	448	6.81e-90	287.0
5847	110	448	2.51e-77	254.0
5848	111	398	3.67e-76	251.0
5849	126	448	1.12e-69	234.0
5850	237	448	3.92e-32	130.0
5851	112	448	1.94e-99	312.0
5852	112	423	2.32e-97	307.0
5853	114	448	6.81e-90	287.0
5854	110	448	2.51e-77	254.0
5855	111	398	3.67e-76	251.0
5856	126	448	1.12e-69	234.0
5857	237	448	3.92e-32	130.0
5858	66	372	2.05e-99	309.0
5859	66	346	3.30e-86	275.0
5860	71	372	1.05e-83	268.0
5861	62	345	2.47e-81	262.0
5862	44	373	3.57e-68	228.0
5863	78	372	8.98e-64	216.0
5864	133	371	3.39e-45	166.0
5865	244	366	2.25e-10	64.3
5866	300	373	5.90e-01	34.3
5867	68	496	2.12e-99	313.0
5868	66	467	1.44e-95	303.0
5869	73	493	6.06e-90	289.0
5870	85	493	2.63e-86	279.0
5871	66	372	1.43e-70	238.0
5872	213	493	2.86e-43	163.0
5873	64	175	2.14e-19	93.2
5874	78	440	2.76e-99	311.0
5875	63	440	1.18e-97	307.0
5876	78	386	2.31e-88	283.0
5877	78	414	5.39e-85	274.0
5878	90	440	8.82e-64	218.0
5879	78	217	8.11e-26	112.0
5880	345	441	2.30e-01	35.8
5881	52	453	3.13e-99	311.0
5882	71	453	7.61e-94	298.0

5883	79	453	4.08e-80	262.0
5884	65	382	6.84e-76	251.0
5885	94	454	8.31e-73	243.0
5886	102	453	1.81e-64	220.0
5887	213	453	1.37e-35	140.0
5888	78	436	3.95e-99	311.0
5889	61	409	7.75e-95	300.0
5890	78	436	1.95e-92	293.0
5891	78	359	9.90e-86	276.0
5892	78	357	3.47e-79	259.0
5893	90	436	2.34e-72	241.0
5894	48	303	3.67e-70	235.0
5895	178	435	4.58e-41	156.0
5896	314	437	1.17e-06	52.8
5897	108	560	6.09e-99	318.0
5898	66	532	8.35e-98	315.0
5899	123	652	1.07e-95	309.0
5900	45	474	8.13e-85	281.0
5901	206	670	5.28e-62	219.0
5902	73	561	7.69e-99	317.0
5903	93	614	6.32e-96	309.0
5904	155	640	2.13e-91	297.0
5905	55	499	1.13e-88	290.0
5906	58	420	8.28e-77	258.0
5907	570	644	1.20e-02	40.0
5908	87	497	1.08e-98	312.0
5909	87	497	1.19e-91	293.0
5910	85	497	4.76e-91	292.0
5911	87	498	2.74e-90	290.0
5912	125	497	1.42e-71	241.0
5913	82	359	2.65e-62	216.0
5914	149	498	3.82e-60	210.0
5915	1	333	1.15e-98	306.0
5916	1	307	3.24e-96	300.0
5917	1	333	1.22e-95	298.0
5918	1	333	4.63e-91	286.0
5919	6	333	3.68e-90	284.0
5920	1	306	9.12e-87	275.0
5921	9	333	3.08e-68	226.0
5922	240	334	6.00e-01	34.3
5923	27	388	2.10e-98	307.0
5924	29	388	3.49e-93	294.0
5925	27	388	1.11e-89	285.0

5926	32	388	6.47e-84	270.0
5927	35	388	1.50e-69	232.0
5928	21	291	3.44e-66	223.0
5929	51	445	2.48e-98	315.0
5930	73	585	5.00e-96	309.0
5931	57	534	6.42e-94	304.0
5932	51	450	7.77e-91	295.0
5933	89	561	6.04e-90	293.0
5934	94	583	4.01e-87	286.0
5935	515	583	2.10e+00	32.7
5936	37	438	2.50e-98	309.0
5937	8	407	1.68e-95	301.0
5938	34	428	5.20e-95	300.0
5939	55	428	1.07e-93	297.0
5940	62	435	5.68e-81	263.0
5941	44	428	3.19e-78	256.0
5942	25	288	3.88e-53	189.0
5943	160	430	1.50e-41	157.0
5944	60	480	3.54e-98	310.0
5945	62	455	1.40e-97	309.0
5946	61	480	2.72e-92	295.0
5947	60	399	5.79e-79	260.0
5948	74	480	1.52e-78	259.0
5949	57	342	5.11e-74	247.0
5950	57	203	1.40e-29	124.0
5951	57	147	7.26e-09	60.1
5952	25	426	3.78e-98	308.0
5953	22	395	4.73e-95	300.0
5954	22	416	6.73e-95	300.0
5955	43	416	1.26e-93	296.0
5956	50	423	6.43e-81	263.0
5957	32	416	3.51e-78	256.0
5958	13	276	4.12e-53	189.0
5959	148	418	1.56e-41	157.0
5960	241	714	4.48e-98	317.0
5961	65	600	9.71e-92	300.0
5962	103	683	4.91e-87	287.0
5963	64	503	3.26e-82	275.0
5964	246	709	5.21e-77	261.0
5965	62	447	1.04e-66	233.0
5966	55	317	1.21e-38	153.0
5967	32	345	4.63e-98	305.0
5968	32	339	8.60e-88	278.0

5969	13	338	3.16e-72	238.0
5970	32	286	1.41e-65	220.0
5971	45	335	6.27e-62	210.0
5972	73	339	3.71e-54	189.0
5973	60	488	6.00e-98	310.0
5974	58	462	1.14e-94	301.0
5975	126	488	9.16e-85	275.0
5976	58	433	7.56e-83	270.0
5977	131	488	2.96e-76	253.0
5978	138	488	2.35e-64	221.0
5979	220	488	6.32e-44	165.0
5980	79	496	6.81e-98	311.0
5981	82	520	6.82e-97	309.0
5982	80	546	5.41e-93	299.0
5983	77	483	4.28e-89	288.0
5984	87	546	7.17e-88	285.0
5985	259	553	1.08e-49	183.0
5986	253	539	8.72e-44	166.0
5987	79	496	6.81e-98	311.0
5988	82	520	6.82e-97	309.0
5989	80	546	5.41e-93	299.0
5990	77	483	4.28e-89	288.0
5991	87	546	7.17e-88	285.0
5992	259	553	1.08e-49	183.0
5993	253	539	8.72e-44	166.0
5994	73	561	1.55e-97	313.0
5995	69	614	2.17e-95	308.0
5996	155	640	1.58e-91	297.0
5997	54	499	6.97e-89	290.0
5998	212	644	9.48e-85	280.0
5999	58	420	9.10e-77	258.0
6000	54	309	2.64e-47	177.0
6001	320	644	1.40e-46	176.0
6002	379	645	3.43e-41	160.0
6003	119	509	2.93e-97	308.0
6004	126	509	2.21e-94	301.0
6005	117	509	2.82e-91	293.0
6006	117	483	3.32e-89	287.0
6007	117	428	5.81e-86	279.0
6008	124	509	3.15e-78	258.0
6009	114	426	3.10e-70	237.0
6010	130	509	3.72e-67	229.0
6011	56	393	4.60e-97	304.0

6012	56	392	2.31e-94	297.0
6013	53	393	4.07e-87	278.0
6014	56	363	3.88e-84	270.0
6015	34	392	2.52e-78	255.0
6016	69	392	7.19e-70	233.0
6017	235	384	1.05e-16	84.0
6018	321	394	5.60e+00	31.2
6019	32	450	7.66e-97	305.0
6020	32	424	1.98e-96	304.0
6021	32	450	2.78e-95	301.0
6022	44	450	1.51e-82	268.0
6023	32	283	1.14e-51	186.0
6024	183	450	9.77e-41	155.0
6025	38	445	8.67e-97	305.0
6026	65	445	2.33e-88	283.0
6027	82	364	2.77e-84	273.0
6028	67	445	1.86e-83	270.0
6029	85	445	1.82e-76	252.0
6030	1	445	2.11e-70	236.0
6031	82	334	2.72e-62	214.0
6032	65	278	1.20e-53	191.0
6033	40	363	1.16e-96	303.0
6034	44	388	1.48e-96	302.0
6035	41	388	1.06e-88	282.0
6036	49	336	1.75e-87	279.0
6037	48	388	4.60e-69	231.0
6038	68	388	2.78e-62	213.0
6039	93	381	6.98e-53	187.0
6040	40	363	1.16e-96	303.0
6041	44	388	1.48e-96	302.0
6042	41	388	1.06e-88	282.0
6043	49	336	1.75e-87	279.0
6044	48	388	4.60e-69	231.0
6045	68	388	2.78e-62	213.0
6046	93	381	6.98e-53	187.0
6047	40	363	1.16e-96	303.0
6048	44	388	1.48e-96	302.0
6049	41	388	1.06e-88	282.0
6050	49	336	1.75e-87	279.0
6051	48	388	4.60e-69	231.0
6052	68	388	2.78e-62	213.0
6053	93	381	6.98e-53	187.0
6054	40	363	1.16e-96	303.0

6055	44	388	1.48e-96	302.0
6056	41	388	1.06e-88	282.0
6057	49	336	1.75e-87	279.0
6058	48	388	4.60e-69	231.0
6059	68	388	2.78e-62	213.0
6060	93	381	6.98e-53	187.0
6061	60	535	1.84e-96	308.0
6062	74	551	4.15e-76	255.0
6063	163	555	6.08e-69	236.0
6064	62	402	2.61e-60	213.0
6065	57	316	1.35e-45	172.0
6066	40	363	2.09e-96	302.0
6067	44	388	2.64e-96	302.0
6068	41	388	1.78e-88	281.0
6069	49	336	2.39e-87	278.0
6070	48	388	1.23e-68	229.0
6071	68	388	6.65e-62	211.0
6072	121	388	6.18e-42	157.0
6073	27	419	2.43e-96	303.0
6074	27	419	1.22e-92	293.0
6075	26	419	2.47e-86	277.0
6076	39	420	1.25e-76	251.0
6077	122	419	1.96e-53	190.0
6078	7	344	3.66e-96	300.0
6079	7	345	2.38e-91	287.0
6080	7	345	3.28e-91	287.0
6081	7	345	9.08e-90	283.0
6082	7	345	2.43e-82	264.0
6083	3	260	1.74e-72	238.0
6084	17	345	9.30e-68	226.0
6085	94	589	8.00e-96	310.0
6086	212	691	1.27e-92	302.0
6087	155	670	2.73e-92	301.0
6088	58	420	2.98e-73	250.0
6089	58	391	8.54e-57	205.0
6090	404	697	7.27e-42	162.0
6091	95	489	9.21e-96	315.0
6092	299	843	1.47e-94	311.0
6093	97	490	1.88e-94	311.0
6094	95	461	7.21e-88	294.0
6095	219	732	6.23e-85	286.0
6096	390	898	8.97e-83	280.0
6097	104	489	7.50e-81	275.0

6098	564	872	1.41e-76	263.0
6099	102	620	8.96e-75	258.0
6100	92	378	5.63e-68	239.0
6101	144	489	2.09e-64	229.0
6102	92	264	1.48e-30	129.0
6103	82	444	9.57e-96	302.0
6104	50	418	6.27e-89	285.0
6105	68	444	2.89e-87	280.0
6106	82	393	2.00e-84	273.0
6107	85	444	5.79e-78	256.0
6108	82	333	1.23e-69	234.0
6109	94	444	3.43e-67	228.0
6110	149	446	3.54e-54	192.0
6111	643	1168	1.35e-95	321.0
6112	701	1224	2.55e-94	317.0
6113	757	1282	2.80e-90	306.0
6114	617	1112	3.45e-90	306.0
6115	602	1111	3.99e-88	300.0
6116	60	423	3.48e-80	278.0
6117	52	423	2.09e-79	275.0
6118	60	446	3.65e-78	272.0
6119	60	399	2.24e-76	266.0
6120	599	885	1.94e-69	246.0
6121	60	369	3.84e-69	246.0
6122	74	446	2.96e-59	216.0
6123	326	471	1.84e-04	46.2
6124	78	467	1.38e-95	304.0
6125	77	467	1.28e-94	301.0
6126	74	414	8.34e-88	283.0
6127	118	467	1.59e-68	233.0
6128	254	460	1.06e-22	103.0
6129	78	467	1.38e-95	304.0
6130	77	467	1.28e-94	301.0
6131	74	414	8.34e-88	283.0
6132	118	467	1.59e-68	233.0
6133	254	460	1.06e-22	103.0
6134	2	336	1.52e-95	298.0
6135	2	313	6.91e-94	294.0
6136	2	332	6.75e-90	283.0
6137	2	332	2.37e-86	274.0
6138	4	332	7.42e-86	273.0
6139	7	332	2.03e-81	261.0
6140	4	332	1.93e-67	224.0

6141	13	332	3.31e-59	203.0
6142	53	421	1.72e-95	301.0
6143	53	420	6.68e-90	286.0
6144	64	420	1.89e-89	285.0
6145	40	367	2.95e-82	266.0
6146	68	420	5.56e-67	226.0
6147	72	418	1.80e-64	219.0
6148	151	420	1.17e-45	168.0
6149	1	302	1.77e-95	297.0
6150	1	302	1.72e-92	290.0
6151	1	283	2.07e-90	284.0
6152	1	302	2.19e-77	250.0
6153	6	302	4.86e-64	215.0
6154	15	306	4.41e-61	207.0
6155	208	300	2.10e-02	38.9
6156	72	407	2.47e-95	300.0
6157	72	407	1.40e-89	285.0
6158	72	384	6.35e-89	283.0
6159	72	407	2.15e-80	261.0
6160	72	382	4.61e-80	260.0
6161	79	407	4.22e-74	244.0
6162	71	354	6.35e-73	241.0
6163	115	403	4.85e-55	194.0
6164	174	409	8.20e-43	160.0
6165	72	407	2.47e-95	300.0
6166	72	407	1.40e-89	285.0
6167	72	384	6.35e-89	283.0
6168	72	407	2.15e-80	261.0
6169	72	382	4.61e-80	260.0
6170	79	407	4.22e-74	244.0
6171	71	354	6.35e-73	241.0
6172	115	403	4.85e-55	194.0
6173	174	409	8.20e-43	160.0
6174	72	407	2.47e-95	300.0
6175	72	407	1.40e-89	285.0
6176	72	384	6.35e-89	283.0
6177	72	407	2.15e-80	261.0
6178	72	382	4.61e-80	260.0
6179	79	407	4.22e-74	244.0
6180	71	354	6.35e-73	241.0
6181	115	403	4.85e-55	194.0
6182	174	409	8.20e-43	160.0
6183	72	407	2.47e-95	300.0

6184	72	407	1.40e-89	285.0
6185	72	384	6.35e-89	283.0
6186	72	407	2.15e-80	261.0
6187	72	382	4.61e-80	260.0
6188	79	407	4.22e-74	244.0
6189	71	354	6.35e-73	241.0
6190	115	403	4.85e-55	194.0
6191	174	409	8.20e-43	160.0
6192	72	407	2.47e-95	300.0
6193	72	407	1.40e-89	285.0
6194	72	384	6.35e-89	283.0
6195	72	407	2.15e-80	261.0
6196	72	382	4.61e-80	260.0
6197	79	407	4.22e-74	244.0
6198	71	354	6.35e-73	241.0
6199	115	403	4.85e-55	194.0
6200	174	409	8.20e-43	160.0
6201	72	407	2.47e-95	300.0
6202	72	407	1.40e-89	285.0
6203	72	384	6.35e-89	283.0
6204	72	407	2.15e-80	261.0
6205	72	382	4.61e-80	260.0
6206	79	407	4.22e-74	244.0
6207	71	354	6.35e-73	241.0
6208	115	403	4.85e-55	194.0
6209	174	409	8.20e-43	160.0
6210	72	407	2.47e-95	300.0
6211	72	407	1.40e-89	285.0
6212	72	384	6.35e-89	283.0
6213	72	407	2.15e-80	261.0
6214	72	382	4.61e-80	260.0
6215	79	407	4.22e-74	244.0
6216	71	354	6.35e-73	241.0
6217	115	403	4.85e-55	194.0
6218	174	409	8.20e-43	160.0
6219	72	407	2.47e-95	300.0
6220	72	407	1.40e-89	285.0
6221	72	384	6.35e-89	283.0
6222	72	407	2.15e-80	261.0
6223	72	382	4.61e-80	260.0
6224	79	407	4.22e-74	244.0
6225	71	354	6.35e-73	241.0
6226	115	403	4.85e-55	194.0

6227	174	409	8.20e-43	160.0
6228	72	407	2.47e-95	300.0
6229	72	407	1.40e-89	285.0
6230	72	384	6.35e-89	283.0
6231	72	407	2.15e-80	261.0
6232	72	382	4.61e-80	260.0
6233	79	407	4.22e-74	244.0
6234	71	354	6.35e-73	241.0
6235	115	403	4.85e-55	194.0
6236	174	409	8.20e-43	160.0
6237	72	407	2.47e-95	300.0
6238	72	407	1.40e-89	285.0
6239	72	384	6.35e-89	283.0
6240	72	407	2.15e-80	261.0
6241	72	382	4.61e-80	260.0
6242	79	407	4.22e-74	244.0
6243	71	354	6.35e-73	241.0
6244	115	403	4.85e-55	194.0
6245	174	409	8.20e-43	160.0
6246	72	407	2.47e-95	300.0
6247	72	407	1.40e-89	285.0
6248	72	384	6.35e-89	283.0
6249	72	407	2.15e-80	261.0
6250	72	382	4.61e-80	260.0
6251	79	407	4.22e-74	244.0
6252	71	354	6.35e-73	241.0
6253	115	403	4.85e-55	194.0
6254	174	409	8.20e-43	160.0
6255	72	407	2.47e-95	300.0
6256	72	407	1.40e-89	285.0
6257	72	384	6.35e-89	283.0
6258	72	407	2.15e-80	261.0
6259	72	382	4.61e-80	260.0
6260	79	407	4.22e-74	244.0
6261	71	354	6.35e-73	241.0
6262	115	403	4.85e-55	194.0
6263	174	409	8.20e-43	160.0
6264	72	407	2.47e-95	300.0
6265	72	407	1.40e-89	285.0
6266	72	384	6.35e-89	283.0
6267	72	407	2.15e-80	261.0
6268	72	382	4.61e-80	260.0
6269	79	407	4.22e-74	244.0

6270	71	354	6.35e-73	241.0
6271	115	403	4.85e-55	194.0
6272	174	409	8.20e-43	160.0
6273	72	407	2.47e-95	300.0
6274	72	407	1.40e-89	285.0
6275	72	384	6.35e-89	283.0
6276	72	407	2.15e-80	261.0
6277	72	382	4.61e-80	260.0
6278	79	407	4.22e-74	244.0
6279	71	354	6.35e-73	241.0
6280	115	403	4.85e-55	194.0
6281	174	409	8.20e-43	160.0
6282	53	388	2.50e-95	300.0
6283	53	388	1.40e-89	285.0
6284	53	365	6.03e-89	283.0
6285	53	388	2.06e-80	261.0
6286	53	363	4.50e-80	259.0
6287	60	388	3.57e-74	244.0
6288	52	335	5.38e-73	241.0
6289	96	384	3.30e-55	194.0
6290	155	390	5.61e-43	160.0
6291	53	388	2.50e-95	300.0
6292	53	388	1.40e-89	285.0
6293	53	365	6.03e-89	283.0
6294	53	388	2.06e-80	261.0
6295	53	363	4.50e-80	259.0
6296	60	388	3.57e-74	244.0
6297	52	335	5.38e-73	241.0
6298	96	384	3.30e-55	194.0
6299	155	390	5.61e-43	160.0
6300	53	388	2.50e-95	300.0
6301	53	388	1.40e-89	285.0
6302	53	365	6.03e-89	283.0
6303	53	388	2.06e-80	261.0
6304	53	363	4.50e-80	259.0
6305	60	388	3.57e-74	244.0
6306	52	335	5.38e-73	241.0
6307	96	384	3.30e-55	194.0
6308	155	390	5.61e-43	160.0
6309	53	388	2.50e-95	300.0
6310	53	388	1.40e-89	285.0
6311	53	365	6.03e-89	283.0
6312	53	388	2.06e-80	261.0

6313	53	363	4.50e-80	259.0
6314	60	388	3.57e-74	244.0
6315	52	335	5.38e-73	241.0
6316	96	384	3.30e-55	194.0
6317	155	390	5.61e-43	160.0
6318	53	388	2.50e-95	300.0
6319	53	388	1.40e-89	285.0
6320	53	365	6.03e-89	283.0
6321	53	388	2.06e-80	261.0
6322	53	363	4.50e-80	259.0
6323	60	388	3.57e-74	244.0
6324	52	335	5.38e-73	241.0
6325	96	384	3.30e-55	194.0
6326	155	390	5.61e-43	160.0
6327	53	388	2.50e-95	300.0
6328	53	388	1.40e-89	285.0
6329	53	365	6.03e-89	283.0
6330	53	388	2.06e-80	261.0
6331	53	363	4.50e-80	259.0
6332	60	388	3.57e-74	244.0
6333	52	335	5.38e-73	241.0
6334	96	384	3.30e-55	194.0
6335	155	390	5.61e-43	160.0
6336	53	388	2.50e-95	300.0
6337	53	388	1.40e-89	285.0
6338	53	365	6.03e-89	283.0
6339	53	388	2.06e-80	261.0
6340	53	363	4.50e-80	259.0
6341	60	388	3.57e-74	244.0
6342	52	335	5.38e-73	241.0
6343	96	384	3.30e-55	194.0
6344	155	390	5.61e-43	160.0
6345	53	388	2.50e-95	300.0
6346	53	388	1.40e-89	285.0
6347	53	365	6.03e-89	283.0
6348	53	388	2.06e-80	261.0
6349	53	363	4.50e-80	259.0
6350	60	388	3.57e-74	244.0
6351	52	335	5.38e-73	241.0
6352	96	384	3.30e-55	194.0
6353	155	390	5.61e-43	160.0
6354	53	388	2.50e-95	300.0
6355	53	388	1.40e-89	285.0

6356	53	365	6.03e-89	283.0
6357	53	388	2.06e-80	261.0
6358	53	363	4.50e-80	259.0
6359	60	388	3.57e-74	244.0
6360	52	335	5.38e-73	241.0
6361	96	384	3.30e-55	194.0
6362	155	390	5.61e-43	160.0
6363	53	388	2.50e-95	300.0
6364	53	388	1.40e-89	285.0
6365	53	365	6.03e-89	283.0
6366	53	388	2.06e-80	261.0
6367	53	363	4.50e-80	259.0
6368	60	388	3.57e-74	244.0
6369	52	335	5.38e-73	241.0
6370	96	384	3.30e-55	194.0
6371	155	390	5.61e-43	160.0
6372	53	388	2.50e-95	300.0
6373	53	388	1.40e-89	285.0
6374	53	365	6.03e-89	283.0
6375	53	388	2.06e-80	261.0
6376	53	363	4.50e-80	259.0
6377	60	388	3.57e-74	244.0
6378	52	335	5.38e-73	241.0
6379	96	384	3.30e-55	194.0
6380	155	390	5.61e-43	160.0
6381	53	388	2.50e-95	300.0
6382	53	388	1.40e-89	285.0
6383	53	365	6.03e-89	283.0
6384	53	388	2.06e-80	261.0
6385	53	363	4.50e-80	259.0
6386	60	388	3.57e-74	244.0
6387	52	335	5.38e-73	241.0
6388	96	384	3.30e-55	194.0
6389	155	390	5.61e-43	160.0
6390	100	432	2.61e-95	301.0
6391	100	432	2.06e-90	288.0
6392	100	409	3.21e-89	285.0
6393	104	432	1.67e-86	278.0
6394	100	407	4.83e-81	264.0
6395	104	432	3.47e-73	243.0
6396	96	379	7.53e-73	242.0
6397	140	428	8.96e-55	194.0
6398	199	434	1.43e-41	157.0

6399	75	407	3.37e-95	300.0
6400	75	407	2.30e-90	287.0
6401	75	384	4.33e-89	284.0
6402	79	407	1.63e-86	277.0
6403	75	382	5.86e-81	263.0
6404	79	407	3.24e-73	242.0
6405	71	354	8.79e-73	241.0
6406	115	403	9.64e-55	193.0
6407	174	409	1.50e-41	157.0
6408	75	407	3.37e-95	300.0
6409	75	407	2.30e-90	287.0
6410	75	384	4.33e-89	284.0
6411	79	407	1.63e-86	277.0
6412	75	382	5.86e-81	263.0
6413	79	407	3.24e-73	242.0
6414	71	354	8.79e-73	241.0
6415	115	403	9.64e-55	193.0
6416	174	409	1.50e-41	157.0
6417	75	407	3.37e-95	300.0
6418	75	407	2.30e-90	287.0
6419	75	384	4.33e-89	284.0
6420	79	407	1.63e-86	277.0
6421	75	382	5.86e-81	263.0
6422	79	407	3.24e-73	242.0
6423	71	354	8.79e-73	241.0
6424	115	403	9.64e-55	193.0
6425	174	409	1.50e-41	157.0
6426	75	407	3.37e-95	300.0
6427	75	407	2.30e-90	287.0
6428	75	384	4.33e-89	284.0
6429	79	407	1.63e-86	277.0
6430	75	382	5.86e-81	263.0
6431	79	407	3.24e-73	242.0
6432	71	354	8.79e-73	241.0
6433	115	403	9.64e-55	193.0
6434	174	409	1.50e-41	157.0
6435	75	407	3.37e-95	300.0
6436	75	407	2.30e-90	287.0
6437	75	384	4.33e-89	284.0
6438	79	407	1.63e-86	277.0
6439	75	382	5.86e-81	263.0
6440	79	407	3.24e-73	242.0
6441	71	354	8.79e-73	241.0

6442	115	403	9.64e-55	193.0
6443	174	409	1.50e-41	157.0
6444	58	369	7.73e-95	298.0
6445	58	398	7.75e-90	285.0
6446	38	341	3.08e-83	268.0
6447	59	386	6.75e-83	267.0
6448	42	389	1.58e-82	266.0
6449	64	386	4.11e-70	234.0
6450	81	395	1.77e-59	205.0
6451	108	386	1.38e-58	203.0
6452	129	389	9.04e-47	171.0
6453	188	377	4.16e-22	100.0
6454	17	360	7.87e-95	298.0
6455	17	360	1.37e-92	292.0
6456	17	351	2.09e-92	291.0
6457	17	360	3.97e-92	291.0
6458	19	360	1.88e-83	268.0
6459	24	360	2.08e-70	234.0
6460	53	361	4.55e-49	177.0
6461	249	362	2.58e-04	45.1
6462	82	443	1.26e-94	300.0
6463	82	418	6.58e-85	274.0
6464	67	443	2.06e-84	273.0
6465	82	393	1.52e-81	265.0
6466	85	443	1.56e-77	255.0
6467	82	333	1.58e-66	226.0
6468	130	443	1.16e-61	213.0
6469	149	446	1.20e-52	188.0
6470	82	443	1.36e-94	299.0
6471	67	443	2.48e-88	283.0
6472	82	418	3.03e-88	283.0
6473	82	393	7.06e-82	266.0
6474	1	443	1.01e-81	266.0
6475	82	333	1.32e-64	220.0
6476	63	376	1.87e-94	296.0
6477	63	375	5.04e-91	288.0
6478	62	345	1.12e-79	258.0
6479	63	376	2.63e-76	249.0
6480	78	376	2.13e-62	213.0
6481	133	376	2.35e-43	161.0
6482	189	377	2.43e-25	109.0
6483	96	455	2.00e-94	299.0
6484	96	455	8.61e-89	285.0

6485	96	455	6.95e-87	280.0
6486	96	432	2.28e-86	278.0
6487	96	377	3.57e-76	251.0
6488	101	455	1.83e-74	247.0
6489	107	455	2.82e-65	223.0
6490	165	456	5.31e-51	184.0
6491	90	263	3.05e-29	122.0
6492	358	455	2.40e-01	35.8
6493	46	408	2.04e-94	298.0
6494	46	407	7.42e-93	293.0
6495	51	408	2.53e-82	266.0
6496	56	408	2.25e-72	240.0
6497	31	215	3.24e-41	155.0
6498	187	408	1.01e-29	123.0
6499	46	408	2.04e-94	298.0
6500	46	407	7.42e-93	293.0
6501	51	408	2.53e-82	266.0
6502	56	408	2.25e-72	240.0
6503	31	215	3.24e-41	155.0
6504	187	408	1.01e-29	123.0
6505	28	526	2.62e-94	301.0
6506	183	509	1.19e-44	168.0
6507	53	368	3.11e-94	296.0
6508	53	365	4.54e-93	293.0
6509	53	366	3.11e-88	280.0
6510	52	335	4.42e-81	261.0
6511	68	368	2.02e-67	226.0
6512	53	368	3.11e-94	296.0
6513	53	365	4.54e-93	293.0
6514	53	366	3.11e-88	280.0
6515	52	335	4.42e-81	261.0
6516	68	368	2.02e-67	226.0
6517	53	368	3.11e-94	296.0
6518	53	365	4.54e-93	293.0
6519	53	366	3.11e-88	280.0
6520	52	335	4.42e-81	261.0
6521	68	368	2.02e-67	226.0
6522	53	368	3.11e-94	296.0
6523	53	365	4.54e-93	293.0
6524	53	366	3.11e-88	280.0
6525	52	335	4.42e-81	261.0
6526	68	368	2.02e-67	226.0
6527	53	366	3.25e-94	296.0

6528	53	365	3.59e-93	293.0
6529	53	366	9.75e-91	286.0
6530	53	366	2.26e-88	280.0
6531	52	335	4.06e-81	261.0
6532	68	366	1.90e-66	223.0
6533	50	253	7.50e-58	200.0
6534	188	367	1.30e-24	107.0
6535	82	418	3.40e-94	298.0
6536	82	443	1.84e-91	291.0
6537	82	443	3.10e-88	283.0
6538	82	393	2.52e-85	275.0
6539	85	443	1.45e-79	260.0
6540	94	443	1.43e-74	247.0
6541	82	305	3.96e-54	192.0
6542	149	436	4.00e-54	192.0
6543	233	443	7.01e-27	115.0
6544	66	372	3.45e-94	296.0
6545	66	372	4.19e-85	272.0
6546	66	346	7.44e-85	271.0
6547	62	345	1.92e-81	263.0
6548	91	373	7.05e-67	224.0
6549	78	372	7.07e-57	197.0
6550	161	372	5.97e-31	125.0
6551	188	372	2.47e-20	94.7
6552	303	373	9.30e-01	33.9
6553	4	372	3.92e-94	296.0
6554	4	347	2.72e-89	283.0
6555	3	372	6.41e-77	251.0
6556	23	372	1.44e-69	231.0
6557	49	375	1.12e-58	202.0
6558	3	95	3.17e-19	91.3
6559	4	372	3.92e-94	296.0
6560	4	347	2.72e-89	283.0
6561	3	372	6.41e-77	251.0
6562	23	372	1.44e-69	231.0
6563	49	375	1.12e-58	202.0
6564	3	95	3.17e-19	91.3
6565	58	442	4.64e-94	298.0
6566	55	442	2.25e-90	289.0
6567	58	422	1.85e-89	286.0
6568	65	442	3.83e-84	272.0
6569	58	339	3.03e-70	236.0
6570	58	329	1.99e-67	228.0

6571	75	442	1.79e-61	212.0
6572	32	508	4.92e-94	300.0
6573	100	513	3.34e-90	290.0
6574	56	429	4.84e-85	276.0
6575	59	483	3.20e-84	275.0
6576	86	513	1.84e-80	265.0
6577	103	513	1.39e-76	254.0
6578	57	372	1.02e-51	187.0
6579	236	514	1.64e-41	159.0
6580	50	177	1.06e-17	87.8
6581	1	297	5.03e-94	293.0
6582	1	298	4.42e-90	282.0
6583	1	270	3.88e-84	267.0
6584	1	297	8.59e-80	256.0
6585	1	298	2.10e-54	189.0
6586	56	298	4.68e-40	149.0
6587	68	513	6.62e-94	300.0
6588	71	488	2.15e-91	293.0
6589	81	509	3.09e-85	277.0
6590	94	509	2.59e-74	248.0
6591	70	376	9.18e-64	220.0
6592	77	315	6.05e-56	199.0
6593	315	506	4.06e-16	82.8
6594	68	513	6.62e-94	300.0
6595	71	488	2.15e-91	293.0
6596	81	509	3.09e-85	277.0
6597	94	509	2.59e-74	248.0
6598	70	376	9.18e-64	220.0
6599	77	315	6.05e-56	199.0
6600	315	506	4.06e-16	82.8
6601	45	407	8.71e-94	296.0
6602	45	406	9.19e-92	291.0
6603	45	407	3.06e-91	289.0
6604	47	407	8.57e-82	265.0
6605	32	323	2.43e-74	245.0
6606	55	407	3.06e-72	239.0
6607	30	214	8.76e-42	157.0
6608	186	407	4.13e-29	121.0
6609	35	391	1.30e-93	295.0
6610	35	369	5.55e-89	283.0
6611	37	391	3.07e-81	263.0
6612	35	340	1.66e-74	245.0
6613	40	391	7.96e-70	233.0

6614	45	391	2.67e-60	207.0
6615	99	389	1.97e-44	164.0
6616	17	201	4.43e-41	155.0
6617	35	391	1.30e-93	295.0
6618	35	369	5.55e-89	283.0
6619	37	391	3.07e-81	263.0
6620	35	340	1.66e-74	245.0
6621	40	391	7.96e-70	233.0
6622	45	391	2.67e-60	207.0
6623	99	389	1.97e-44	164.0
6624	17	201	4.43e-41	155.0
6625	35	391	1.30e-93	295.0
6626	35	369	5.55e-89	283.0
6627	37	391	3.07e-81	263.0
6628	35	340	1.66e-74	245.0
6629	40	391	7.96e-70	233.0
6630	45	391	2.67e-60	207.0
6631	99	389	1.97e-44	164.0
6632	17	201	4.43e-41	155.0
6633	2	291	1.33e-93	291.0
6634	4	292	1.50e-89	281.0
6635	2	292	5.33e-84	266.0
6636	17	292	1.21e-72	237.0
6637	3	292	7.96e-63	211.0
6638	23	292	2.13e-54	188.0
6639	114	293	3.42e-27	113.0
6640	364	778	1.90e-93	307.0
6641	217	753	1.72e-85	286.0
6642	35	555	1.47e-84	283.0
6643	79	640	9.13e-84	281.0
6644	375	778	8.00e-70	243.0
6645	4	416	9.29e-62	221.0
6646	456	778	4.42e-54	199.0
6647	3	235	5.16e-50	187.0
6648	623	778	2.04e-16	84.7
6649	4	80	4.34e-08	57.8
6650	681	779	4.60e-02	38.5
6651	32	390	2.31e-93	294.0
6652	53	368	3.72e-85	273.0
6653	44	339	8.43e-73	241.0
6654	41	390	1.71e-63	216.0
6655	42	143	3.93e-12	69.7
6656	80	440	2.86e-93	296.0

6657	80	389	6.48e-86	276.0
6658	57	359	6.81e-80	261.0
6659	1	440	4.98e-74	245.0
6660	146	442	1.78e-57	201.0
6661	82	443	2.93e-93	296.0
6662	67	443	6.24e-88	282.0
6663	50	418	6.79e-87	279.0
6664	82	393	9.80e-82	266.0
6665	85	443	2.42e-79	259.0
6666	94	443	4.15e-66	224.0
6667	53	333	1.62e-65	223.0
6668	149	436	1.04e-53	191.0
6669	65	415	4.29e-93	295.0
6670	66	409	1.24e-91	291.0
6671	67	444	1.33e-90	289.0
6672	65	444	2.14e-90	288.0
6673	1	444	1.41e-72	242.0
6674	82	333	1.60e-66	226.0
6675	31	389	5.32e-93	293.0
6676	52	367	8.44e-85	272.0
6677	43	317	6.93e-73	241.0
6678	40	389	4.51e-63	215.0
6679	41	142	3.71e-12	69.7
6680	3	340	1.39e-92	291.0
6681	3	340	9.27e-87	275.0
6682	3	318	1.27e-84	270.0
6683	3	289	8.57e-72	236.0
6684	4	340	2.33e-62	211.0
6685	23	340	5.30e-60	205.0
6686	70	340	4.33e-47	170.0
6687	32	508	1.81e-92	296.0
6688	100	513	1.36e-88	286.0
6689	59	483	1.42e-82	270.0
6690	86	513	1.01e-78	260.0
6691	103	513	7.31e-75	250.0
6692	54	429	2.03e-72	243.0
6693	57	372	4.14e-50	183.0
6694	236	514	1.70e-41	159.0
6695	72	485	2.13e-92	298.0
6696	72	461	1.58e-89	290.0
6697	59	543	1.33e-86	282.0
6698	91	563	2.67e-69	236.0
6699	56	294	5.19e-39	152.0

6700	82	415	2.67e-92	293.0
6701	82	444	7.13e-89	285.0
6702	68	444	1.78e-88	283.0
6703	82	393	2.57e-86	278.0
6704	85	444	9.91e-78	255.0
6705	82	333	6.04e-70	235.0
6706	125	444	5.68e-63	216.0
6707	149	446	4.13e-56	197.0
6708	57	414	3.00e-92	292.0
6709	57	405	4.59e-87	279.0
6710	57	390	9.35e-85	273.0
6711	59	414	1.46e-84	272.0
6712	67	414	8.06e-64	218.0
6713	45	436	5.56e-92	292.0
6714	42	436	1.09e-89	286.0
6715	55	436	2.77e-77	254.0
6716	41	298	9.30e-60	207.0
6717	52	386	5.95e-92	291.0
6718	1	386	6.29e-82	265.0
6719	52	335	6.87e-79	256.0
6720	52	303	1.39e-70	234.0
6721	119	386	5.25e-47	171.0
6722	9	483	1.12e-91	293.0
6723	47	463	6.60e-85	275.0
6724	54	434	2.43e-72	242.0
6725	47	483	1.99e-70	237.0
6726	39	259	7.54e-48	176.0
6727	129	483	9.15e-46	170.0
6728	194	484	3.11e-42	160.0
6729	47	206	1.01e-34	139.0
6730	365	484	3.10e-11	67.4
6731	41	374	1.25e-91	289.0
6732	41	374	4.88e-88	280.0
6733	43	374	2.92e-87	278.0
6734	41	374	9.09e-85	271.0
6735	39	320	2.12e-77	252.0
6736	46	374	1.77e-75	247.0
6737	51	373	1.69e-64	218.0
6738	78	374	1.10e-56	197.0
6739	160	656	1.31e-91	300.0
6740	241	733	1.78e-86	286.0
6741	66	399	2.50e-91	290.0
6742	66	402	7.12e-89	283.0

6743	66	399	2.76e-83	268.0
6744	73	401	1.26e-78	256.0
6745	76	399	3.43e-67	226.0
6746	2	319	2.74e-91	286.0
6747	4	290	6.62e-85	270.0
6748	2	319	1.41e-74	243.0
6749	2	235	1.40e-66	222.0
6750	2	318	1.04e-62	211.0
6751	21	319	4.55e-53	186.0
6752	2	151	2.82e-32	128.0
6753	53	387	3.04e-91	290.0
6754	57	414	1.52e-89	285.0
6755	53	364	5.04e-88	281.0
6756	20	414	1.28e-81	265.0
6757	49	306	2.71e-71	237.0
6758	65	414	2.80e-67	227.0
6759	122	416	3.62e-53	189.0
6760	287	416	5.89e-06	50.4
6761	48	466	3.21e-91	291.0
6762	47	461	4.66e-89	286.0
6763	41	466	1.75e-85	276.0
6764	44	419	2.38e-83	271.0
6765	57	466	4.11e-81	265.0
6766	43	359	1.04e-74	248.0
6767	64	466	7.32e-73	243.0
6768	179	476	9.02e-45	167.0
6769	201	466	1.12e-38	150.0
6770	346	476	1.00e-03	43.1
6771	48	466	3.21e-91	291.0
6772	47	461	4.66e-89	286.0
6773	41	466	1.75e-85	276.0
6774	44	419	2.38e-83	271.0
6775	57	466	4.11e-81	265.0
6776	43	359	1.04e-74	248.0
6777	64	466	7.32e-73	243.0
6778	179	476	9.02e-45	167.0
6779	201	466	1.12e-38	150.0
6780	346	476	1.00e-03	43.1
6781	72	408	3.58e-91	290.0
6782	72	406	4.16e-89	284.0
6783	72	411	2.26e-87	280.0
6784	72	414	8.62e-85	273.0
6785	42	407	2.18e-78	256.0

6786	75	411	2.39e-69	232.0
6787	139	407	3.52e-46	170.0
6788	67	240	5.10e-41	155.0
6789	166	411	5.15e-38	147.0
6790	306	420	1.90e-02	39.3
6791	62	490	3.67e-91	292.0
6792	60	464	1.28e-89	288.0
6793	65	490	1.33e-87	283.0
6794	56	435	1.13e-77	256.0
6795	70	490	2.31e-69	234.0
6796	53	380	1.65e-45	169.0
6797	215	490	5.85e-42	160.0
6798	25	416	5.90e-91	289.0
6799	22	416	1.61e-89	285.0
6800	35	416	3.32e-76	250.0
6801	21	304	1.25e-59	206.0
6802	80	440	7.15e-91	290.0
6803	77	440	2.23e-90	288.0
6804	80	389	3.75e-84	272.0
6805	1	440	3.36e-80	262.0
6806	57	359	1.17e-76	252.0
6807	147	442	2.64e-54	192.0
6808	57	440	1.38e-90	289.0
6809	77	440	2.15e-88	283.0
6810	57	389	7.33e-85	274.0
6811	1	440	4.71e-80	261.0
6812	147	442	5.67e-54	192.0
6813	93	456	1.41e-90	289.0
6814	93	429	2.22e-83	270.0
6815	93	402	7.17e-83	269.0
6816	79	456	4.52e-79	259.0
6817	104	456	1.81e-67	228.0
6818	79	346	3.63e-55	195.0
6819	93	316	3.45e-45	168.0
6820	58	421	1.88e-90	288.0
6821	58	394	2.88e-83	269.0
6822	58	367	1.00e-82	268.0
6823	44	421	4.35e-79	258.0
6824	69	421	1.29e-67	228.0
6825	44	311	4.21e-55	194.0
6826	58	281	3.69e-45	167.0
6827	32	422	3.70e-90	287.0
6828	32	396	5.90e-90	286.0

6829	32	422	5.13e-88	281.0
6830	32	422	2.42e-86	277.0
6831	32	382	1.57e-84	272.0
6832	44	422	2.32e-72	240.0
6833	32	283	1.78e-51	184.0
6834	183	421	3.88e-33	133.0
6835	32	422	3.70e-90	287.0
6836	32	396	5.90e-90	286.0
6837	32	422	5.13e-88	281.0
6838	32	422	2.42e-86	277.0
6839	32	382	1.57e-84	272.0
6840	44	422	2.32e-72	240.0
6841	32	283	1.78e-51	184.0
6842	183	421	3.88e-33	133.0
6843	68	372	5.57e-90	285.0
6844	68	372	1.80e-88	281.0
6845	66	346	5.48e-82	264.0
6846	70	372	1.52e-79	258.0
6847	62	318	4.34e-79	256.0
6848	71	373	6.16e-67	224.0
6849	68	291	4.20e-64	217.0
6850	78	372	1.21e-55	194.0
6851	300	373	4.00e+00	32.0
6852	9	346	6.73e-90	284.0
6853	7	343	6.07e-78	253.0
6854	3	289	1.64e-77	251.0
6855	21	345	4.74e-64	216.0
6856	160	345	1.72e-19	91.7
6857	58	363	1.69e-89	283.0
6858	58	339	9.47e-83	266.0
6859	58	363	1.30e-80	260.0
6860	55	363	8.38e-72	237.0
6861	73	358	4.42e-58	201.0
6862	103	363	4.39e-52	184.0
6863	267	363	2.00e-03	42.4
6864	60	437	1.82e-89	286.0
6865	69	437	1.54e-79	260.0
6866	60	410	3.25e-77	254.0
6867	57	357	6.67e-66	224.0
6868	147	436	4.30e-57	200.0
6869	169	437	4.23e-47	173.0
6870	70	375	2.96e-89	283.0
6871	70	351	1.33e-82	266.0

6872	70	375	2.21e-80	260.0
6873	67	375	1.39e-70	234.0
6874	85	370	5.64e-57	198.0
6875	115	375	3.23e-50	179.0
6876	279	375	2.00e-03	42.0
6877	64	480	3.00e-89	286.0
6878	64	482	5.12e-87	281.0
6879	64	457	9.74e-85	275.0
6880	107	480	1.04e-57	203.0
6881	68	378	3.39e-89	283.0
6882	68	378	3.49e-88	280.0
6883	68	378	9.69e-88	279.0
6884	68	378	1.40e-82	266.0
6885	66	352	6.71e-82	264.0
6886	62	324	8.14e-80	258.0
6887	70	378	4.34e-78	254.0
6888	73	378	2.30e-72	239.0
6889	76	378	9.00e-58	200.0
6890	306	379	1.60e+00	33.1
6891	54	440	3.98e-89	285.0
6892	54	418	4.39e-84	272.0
6893	54	419	1.48e-83	271.0
6894	81	439	1.40e-76	252.0
6895	54	440	3.98e-89	285.0
6896	54	418	4.39e-84	272.0
6897	54	419	1.48e-83	271.0
6898	81	439	1.40e-76	252.0
6899	77	436	4.76e-89	285.0
6900	84	410	6.63e-86	276.0
6901	77	436	4.40e-84	272.0
6902	61	377	8.17e-83	268.0
6903	77	377	1.32e-80	263.0
6904	31	436	1.99e-80	262.0
6905	141	436	1.35e-53	191.0
6906	60	270	1.45e-47	174.0
6907	196	432	5.17e-33	133.0
6908	307	436	2.34e-09	61.2
6909	77	436	4.76e-89	285.0
6910	84	410	6.63e-86	276.0
6911	77	436	4.40e-84	272.0
6912	61	377	8.17e-83	268.0
6913	77	377	1.32e-80	263.0
6914	31	436	1.99e-80	262.0

6915	141	436	1.35e-53	191.0
6916	60	270	1.45e-47	174.0
6917	196	432	5.17e-33	133.0
6918	307	436	2.34e-09	61.2
6919	79	418	9.57e-89	285.0
6920	76	372	2.12e-79	260.0
6921	67	398	2.51e-74	246.0
6922	73	345	3.31e-69	233.0
6923	82	398	2.45e-68	231.0
6924	102	398	7.11e-51	184.0
6925	67	232	2.87e-32	131.0
6926	76	439	9.78e-89	284.0
6927	76	412	2.72e-84	272.0
6928	45	439	5.65e-78	256.0
6929	76	385	2.95e-77	254.0
6930	76	355	6.92e-69	232.0
6931	88	439	1.72e-67	228.0
6932	310	439	1.89e-07	55.5
6933	66	345	1.38e-88	280.0
6934	48	345	6.90e-82	263.0
6935	63	344	4.94e-67	224.0
6936	78	345	1.09e-53	188.0
6937	133	345	7.19e-36	139.0
6938	70	441	1.75e-88	283.0
6939	85	441	4.74e-86	277.0
6940	85	419	3.35e-84	272.0
6941	71	393	4.03e-81	264.0
6942	89	441	8.79e-73	242.0
6943	125	446	1.69e-53	191.0
6944	179	439	6.45e-40	153.0
6945	85	198	4.32e-23	103.0
6946	82	415	1.78e-88	283.0
6947	82	365	2.47e-81	264.0
6948	67	415	8.88e-78	254.0
6949	53	307	3.22e-66	224.0
6950	85	415	8.38e-66	223.0
6951	130	410	5.32e-54	191.0
6952	149	415	1.38e-49	179.0
6953	88	527	1.87e-88	286.0
6954	97	532	3.05e-84	275.0
6955	83	483	4.06e-81	267.0
6956	149	532	7.00e-66	226.0
6957	79	396	7.68e-64	221.0

6958	76	362	2.35e-59	209.0
6959	203	532	3.20e-53	192.0
6960	59	304	8.80e-42	160.0
6961	353	531	3.47e-21	99.0
6962	60	370	2.00e-88	283.0
6963	60	424	5.09e-88	282.0
6964	60	423	6.82e-84	271.0
6965	60	423	1.45e-83	270.0
6966	69	417	3.35e-82	266.0
6967	67	423	1.73e-69	233.0
6968	74	423	3.39e-57	200.0
6969	100	408	4.96e-57	200.0
6970	57	313	4.50e-56	197.0
6971	57	284	7.34e-45	166.0
6972	57	257	2.20e-44	165.0
6973	60	370	2.00e-88	283.0
6974	60	424	5.09e-88	282.0
6975	60	423	6.82e-84	271.0
6976	60	423	1.45e-83	270.0
6977	69	417	3.35e-82	266.0
6978	67	423	1.73e-69	233.0
6979	74	423	3.39e-57	200.0
6980	100	408	4.96e-57	200.0
6981	57	313	4.50e-56	197.0
6982	57	284	7.34e-45	166.0
6983	57	257	2.20e-44	165.0
6984	80	504	2.14e-88	286.0
6985	72	512	4.86e-86	280.0
6986	88	512	5.83e-81	266.0
6987	72	364	1.43e-71	241.0
6988	96	512	5.15e-63	219.0
6989	123	512	1.06e-60	213.0
6990	76	252	9.51e-38	148.0
6991	56	221	3.10e-26	114.0
6992	21	298	2.64e-88	278.0
6993	25	302	4.81e-87	275.0
6994	25	302	1.81e-85	271.0
6995	25	302	1.80e-78	252.0
6996	22	302	8.89e-70	229.0
6997	37	302	7.74e-57	195.0
6998	2	300	2.79e-88	278.0
6999	7	305	8.48e-86	272.0
7000	2	306	1.33e-82	263.0

7001	1	305	2.85e-62	210.0
7002	7	238	2.92e-61	207.0
7003	1	184	1.17e-49	176.0
7004	60	398	3.14e-88	281.0
7005	69	399	1.70e-70	234.0
7006	64	315	6.46e-67	225.0
7007	76	398	3.69e-64	218.0
7008	130	398	2.43e-46	170.0
7009	61	465	3.29e-88	284.0
7010	68	491	6.11e-87	281.0
7011	59	409	3.71e-67	229.0
7012	71	491	2.21e-66	227.0
7013	59	408	4.88e-63	218.0
7014	189	493	3.90e-57	202.0
7015	75	414	3.74e-88	281.0
7016	34	409	2.36e-73	243.0
7017	112	411	1.15e-66	225.0
7018	87	411	2.95e-62	213.0
7019	57	392	4.71e-88	280.0
7020	59	391	1.31e-79	258.0
7021	52	335	4.91e-73	241.0
7022	41	391	1.18e-61	211.0
7023	67	391	1.20e-59	206.0
7024	57	466	5.81e-88	283.0
7025	54	449	1.30e-80	263.0
7026	61	465	3.70e-76	252.0
7027	69	466	1.71e-68	231.0
7028	95	465	4.16e-59	206.0
7029	52	386	6.12e-88	280.0
7030	52	335	6.53e-80	259.0
7031	52	303	9.76e-65	219.0
7032	1	386	3.55e-64	218.0
7033	92	388	2.24e-55	194.0
7034	66	475	6.96e-88	283.0
7035	63	458	1.71e-80	263.0
7036	70	474	4.51e-76	252.0
7037	78	475	2.26e-68	231.0
7038	104	474	5.01e-59	206.0
7039	89	409	8.79e-88	281.0
7040	89	410	2.74e-84	271.0
7041	98	375	2.88e-73	243.0
7042	103	405	6.53e-73	242.0
7043	108	405	2.48e-60	208.0

7044	304	410	1.27e-05	49.3
7045	63	352	8.99e-88	279.0
7046	63	358	4.25e-87	277.0
7047	62	319	7.05e-76	248.0
7048	59	291	9.06e-68	226.0
7049	73	356	3.41e-65	219.0
7050	78	358	4.43e-54	190.0
7051	82	415	9.04e-88	281.0
7052	82	390	6.49e-80	260.0
7053	82	365	1.36e-79	259.0
7054	67	415	7.24e-77	252.0
7055	85	415	2.55e-65	221.0
7056	130	410	1.36e-53	190.0
7057	149	415	1.69e-49	179.0
7058	57	466	1.11e-87	282.0
7059	54	443	2.36e-80	263.0
7060	61	465	7.57e-76	251.0
7061	69	466	2.76e-68	231.0
7062	95	465	6.87e-59	206.0
7063	57	466	1.11e-87	282.0
7064	54	443	2.36e-80	263.0
7065	61	465	7.57e-76	251.0
7066	69	466	2.76e-68	231.0
7067	95	465	6.87e-59	206.0
7068	82	422	1.25e-87	280.0
7069	82	393	3.96e-84	271.0
7070	82	422	3.36e-83	269.0
7071	82	387	1.74e-80	262.0
7072	68	422	4.61e-80	261.0
7073	1	422	2.54e-64	219.0
7074	127	424	4.25e-57	200.0
7075	35	314	1.43e-87	276.0
7076	31	314	6.20e-82	262.0
7077	32	313	1.16e-66	222.0
7078	47	314	2.03e-52	184.0
7079	102	314	3.17e-35	136.0
7080	162	687	2.96e-87	287.0
7081	62	577	1.02e-86	286.0
7082	140	661	8.07e-84	278.0
7083	59	521	4.11e-80	268.0
7084	108	632	1.35e-79	267.0
7085	65	357	1.54e-60	215.0
7086	269	687	4.27e-59	211.0

7087	35	260	2.70e-39	155.0
7088	540	687	2.10e-10	65.1
7089	592	688	1.00e-03	43.5
7090	43	349	5.18e-87	276.0
7091	43	349	2.69e-82	264.0
7092	43	314	3.63e-75	245.0
7093	29	349	1.85e-71	236.0
7094	46	349	1.41e-61	209.0
7095	55	351	1.30e-58	202.0
7096	110	348	7.60e-41	153.0
7097	52	386	5.28e-87	278.0
7098	52	335	1.87e-78	255.0
7099	38	386	8.66e-77	251.0
7100	55	386	2.87e-64	218.0
7101	52	303	4.35e-64	218.0
7102	1	388	1.10e-52	187.0
7103	34	605	5.92e-87	286.0
7104	73	620	5.98e-87	285.0
7105	117	632	2.49e-81	271.0
7106	28	494	2.37e-78	263.0
7107	7	329	1.60e-73	250.0
7108	22	468	3.03e-72	246.0
7109	22	331	3.70e-67	233.0
7110	532	634	2.70e-01	35.8
7111	83	415	6.51e-87	278.0
7112	64	417	1.05e-86	278.0
7113	81	380	3.13e-84	271.0
7114	85	415	6.78e-84	271.0
7115	65	389	1.25e-81	265.0
7116	90	415	3.81e-81	263.0
7117	93	415	5.24e-64	218.0
7118	64	278	2.60e-53	189.0
7119	148	415	2.08e-52	187.0
7120	287	417	3.34e-08	57.8
7121	83	415	6.51e-87	278.0
7122	64	417	1.05e-86	278.0
7123	81	380	3.13e-84	271.0
7124	85	415	6.78e-84	271.0
7125	65	389	1.25e-81	265.0
7126	90	415	3.81e-81	263.0
7127	93	415	5.24e-64	218.0
7128	64	278	2.60e-53	189.0
7129	148	415	2.08e-52	187.0

7130	287	417	3.34e-08	57.8
7131	77	432	7.34e-87	279.0
7132	84	410	1.89e-83	270.0
7133	77	434	7.28e-82	266.0
7134	77	434	5.60e-80	261.0
7135	77	377	2.07e-78	256.0
7136	91	434	2.92e-74	246.0
7137	121	432	1.75e-60	209.0
7138	141	428	1.55e-51	185.0
7139	60	270	2.01e-46	171.0
7140	196	432	2.68e-31	128.0
7141	82	416	1.00e-86	278.0
7142	82	365	1.77e-78	256.0
7143	82	390	1.08e-75	249.0
7144	82	333	5.66e-64	218.0
7145	1	418	8.33e-55	193.0
7146	1	279	1.14e-86	274.0
7147	1	279	1.84e-86	273.0
7148	1	260	2.88e-84	267.0
7149	11	283	1.43e-60	205.0
7150	20	277	2.49e-51	180.0
7151	49	279	2.24e-36	139.0
7152	160	283	6.69e-12	68.2
7153	185	277	2.50e-02	38.5
7154	82	416	1.31e-86	278.0
7155	82	365	3.20e-78	256.0
7156	82	390	2.04e-76	251.0
7157	82	333	2.34e-64	219.0
7158	27	418	1.38e-54	193.0
7159	44	361	1.39e-86	276.0
7160	49	361	2.81e-82	265.0
7161	44	339	2.28e-79	257.0
7162	51	361	4.87e-69	230.0
7163	21	312	4.96e-61	209.0
7164	37	364	3.41e-59	204.0
7165	67	405	1.86e-86	277.0
7166	67	381	1.05e-82	267.0
7167	118	405	1.02e-72	241.0
7168	121	400	8.21e-54	190.0
7169	138	405	5.50e-47	172.0
7170	73	269	1.45e-35	140.0
7171	77	432	1.91e-86	278.0
7172	94	432	7.73e-83	268.0

7173	84	410	9.97e-83	268.0
7174	77	434	5.71e-82	266.0
7175	77	434	2.59e-80	261.0
7176	45	377	3.79e-80	261.0
7177	45	377	8.57e-78	255.0
7178	91	434	1.24e-73	244.0
7179	121	432	4.00e-60	208.0
7180	141	428	1.18e-52	188.0
7181	196	432	1.16e-30	126.0
7182	122	412	2.06e-86	277.0
7183	122	403	1.02e-76	251.0
7184	122	412	1.05e-76	251.0
7185	118	400	8.70e-73	241.0
7186	129	412	4.25e-66	223.0
7187	122	377	6.27e-61	209.0
7188	132	411	1.76e-55	195.0
7189	82	416	2.15e-86	277.0
7190	82	365	1.14e-78	257.0
7191	67	416	1.06e-76	252.0
7192	82	390	8.10e-76	249.0
7193	85	416	1.51e-64	219.0
7194	82	333	3.33e-64	219.0
7195	1	418	2.19e-53	189.0
7196	93	668	2.45e-86	285.0
7197	64	546	1.11e-59	213.0
7198	262	669	1.89e-51	189.0
7199	430	667	6.01e-36	145.0
7200	52	366	2.58e-86	275.0
7201	52	364	4.42e-81	261.0
7202	42	364	5.41e-68	227.0
7203	64	364	2.12e-57	199.0
7204	180	364	3.87e-22	100.0
7205	27	360	2.77e-86	275.0
7206	27	360	3.82e-76	248.0
7207	32	360	8.42e-68	226.0
7208	21	304	2.45e-64	217.0
7209	37	359	5.05e-56	195.0
7210	124	360	6.97e-35	137.0
7211	82	416	2.81e-86	277.0
7212	82	365	6.10e-78	255.0
7213	82	390	2.56e-77	253.0
7214	1	416	3.85e-64	218.0
7215	82	333	1.74e-62	214.0

7216	290	418	8.41e-08	56.2
7217	27	360	2.98e-86	275.0
7218	27	360	1.62e-75	246.0
7219	32	360	4.49e-68	227.0
7220	21	304	1.60e-63	215.0
7221	37	359	2.03e-55	193.0
7222	124	360	1.30e-34	136.0
7223	27	370	3.02e-86	275.0
7224	27	333	1.64e-84	271.0
7225	24	361	2.62e-84	270.0
7226	27	362	3.38e-84	270.0
7227	29	361	2.19e-74	244.0
7228	27	332	4.88e-73	241.0
7229	32	375	8.79e-71	234.0
7230	78	361	5.87e-55	192.0
7231	92	361	5.98e-40	151.0
7232	21	328	3.13e-86	275.0
7233	21	354	5.40e-83	266.0
7234	23	354	2.50e-79	256.0
7235	26	354	2.01e-76	249.0
7236	31	353	1.13e-57	199.0
7237	58	354	3.71e-54	190.0
7238	15	158	7.99e-25	107.0
7239	55	340	5.36e-86	273.0
7240	51	308	7.52e-76	247.0
7241	52	336	2.69e-74	243.0
7242	55	305	1.66e-64	217.0
7243	52	333	4.17e-63	213.0
7244	60	334	1.05e-57	199.0
7245	68	334	4.27e-52	184.0
7246	99	440	8.20e-86	276.0
7247	89	439	1.21e-73	244.0
7248	111	439	1.49e-57	201.0
7249	281	439	7.37e-18	87.8
7250	86	389	8.38e-86	275.0
7251	86	389	5.22e-79	257.0
7252	86	365	5.04e-76	249.0
7253	86	389	9.68e-74	243.0
7254	86	363	6.63e-67	225.0
7255	88	389	1.65e-59	205.0
7256	132	389	8.94e-39	148.0
7257	161	390	7.43e-34	134.0
7258	208	389	3.59e-20	94.4

7259	67	410	9.07e-86	275.0
7260	61	406	3.03e-79	258.0
7261	66	323	6.62e-75	247.0
7262	105	410	2.33e-66	224.0
7263	83	407	2.45e-62	214.0
7264	230	410	1.20e-14	77.8
7265	278	410	4.45e-11	66.6
7266	304	407	8.90e-01	33.9
7267	74	436	1.27e-85	276.0
7268	74	386	1.00e-82	268.0
7269	32	436	8.53e-74	244.0
7270	3	283	1.31e-85	271.0
7271	3	266	3.70e-83	265.0
7272	3	274	1.06e-68	226.0
7273	1	288	2.01e-58	199.0
7274	54	283	6.81e-37	140.0
7275	110	289	3.23e-21	95.9
7276	191	278	5.00e-01	34.7
7277	74	439	1.43e-85	277.0
7278	76	439	1.86e-83	271.0
7279	74	415	2.58e-82	268.0
7280	85	439	5.29e-74	246.0
7281	90	439	7.33e-64	219.0
7282	255	432	2.56e-21	99.0
7283	74	439	1.43e-85	277.0
7284	76	439	1.86e-83	271.0
7285	74	415	2.58e-82	268.0
7286	85	439	5.29e-74	246.0
7287	90	439	7.33e-64	219.0
7288	255	432	2.56e-21	99.0
7289	37	401	1.74e-85	283.0
7290	37	421	7.75e-84	279.0
7291	130	685	1.13e-77	263.0
7292	37	346	9.22e-76	257.0
7293	191	715	2.30e-74	254.0
7294	36	421	7.96e-74	252.0
7295	49	600	2.22e-71	246.0
7296	27	318	9.57e-67	233.0
7297	215	716	1.09e-66	233.0
7298	68	402	2.40e-85	274.0
7299	68	367	5.25e-81	263.0
7300	36	376	7.29e-81	262.0
7301	68	402	3.16e-76	250.0

7302	71	402	1.35e-67	227.0
7303	39	293	3.93e-66	223.0
7304	116	404	2.46e-58	202.0
7305	135	402	4.93e-52	186.0
7306	276	404	2.76e-07	54.7
7307	82	416	2.72e-85	274.0
7308	50	390	1.39e-81	265.0
7309	82	381	1.08e-79	259.0
7310	82	416	2.13e-76	251.0
7311	50	335	8.12e-75	247.0
7312	94	416	8.30e-66	223.0
7313	130	418	1.02e-56	199.0
7314	149	416	6.52e-51	183.0
7315	290	418	1.24e-07	55.8
7316	227	567	3.81e-85	278.0
7317	227	544	1.58e-82	271.0
7318	229	567	3.23e-72	244.0
7319	229	522	7.03e-71	241.0
7320	234	567	3.44e-64	223.0
7321	236	567	5.33e-57	203.0
7322	267	568	1.95e-50	185.0
7323	311	567	1.53e-36	145.0
7324	332	567	3.02e-30	127.0
7325	227	567	3.81e-85	278.0
7326	227	544	1.58e-82	271.0
7327	229	567	3.23e-72	244.0
7328	229	522	7.03e-71	241.0
7329	234	567	3.44e-64	223.0
7330	236	567	5.33e-57	203.0
7331	267	568	1.95e-50	185.0
7332	311	567	1.53e-36	145.0
7333	332	567	3.02e-30	127.0
7334	226	566	4.49e-85	278.0
7335	226	543	1.81e-82	271.0
7336	228	566	3.36e-72	244.0
7337	228	521	7.62e-71	241.0
7338	233	566	3.81e-64	223.0
7339	235	566	5.85e-57	203.0
7340	266	567	2.08e-50	185.0
7341	310	566	1.64e-36	145.0
7342	331	566	3.05e-30	127.0
7343	80	465	4.91e-85	275.0
7344	80	440	5.53e-82	267.0

7345	80	465	9.96e-75	248.0
7346	80	416	3.66e-73	244.0
7347	92	465	9.05e-62	214.0
7348	80	386	5.04e-58	203.0
7349	319	470	4.17e-08	57.4
7350	54	382	5.92e-85	272.0
7351	54	363	4.48e-82	265.0
7352	54	382	3.77e-78	254.0
7353	51	382	1.84e-72	239.0
7354	59	382	2.50e-63	215.0
7355	66	384	3.78e-49	177.0
7356	164	640	7.35e-85	280.0
7357	57	584	7.70e-84	278.0
7358	170	666	2.41e-82	274.0
7359	43	325	5.10e-65	227.0
7360	43	332	1.26e-64	226.0
7361	43	325	8.24e-64	224.0
7362	42	555	1.69e-62	220.0
7363	9	294	4.01e-41	160.0
7364	484	666	3.67e-20	96.3
7365	488	666	3.62e-14	77.4
7366	49	350	1.14e-84	270.0
7367	49	350	2.92e-78	254.0
7368	47	328	1.34e-77	252.0
7369	49	351	1.84e-75	246.0
7370	39	350	2.89e-70	233.0
7371	51	350	4.06e-68	227.0
7372	51	352	5.20e-60	205.0
7373	58	349	1.78e-58	201.0
7374	49	276	9.13e-55	191.0
7375	85	350	6.19e-45	164.0
7376	142	351	1.45e-30	124.0
7377	55	414	1.26e-84	273.0
7378	55	391	9.56e-80	259.0
7379	55	364	8.78e-79	257.0
7380	80	414	1.69e-65	222.0
7381	55	336	2.46e-60	208.0
7382	67	414	6.09e-59	204.0
7383	66	351	1.34e-84	270.0
7384	62	347	1.13e-78	254.0
7385	66	347	8.61e-75	244.0
7386	63	344	5.30e-63	213.0
7387	78	345	6.81e-49	176.0

7388	133	345	1.34e-33	133.0
7389	30	315	1.35e-84	269.0
7390	14	315	5.35e-78	251.0
7391	13	315	1.25e-68	227.0
7392	15	314	9.04e-63	211.0
7393	40	315	7.28e-56	193.0
7394	57	315	3.23e-50	178.0
7395	161	315	1.49e-17	85.5
7396	244	314	9.30e-01	33.9
7397	542	945	1.48e-84	286.0
7398	548	934	1.85e-80	275.0
7399	550	934	1.56e-78	269.0
7400	548	934	8.75e-64	228.0
7401	641	934	3.19e-46	177.0
7402	651	934	1.60e-40	160.0
7403	54	466	1.92e-84	273.0
7404	54	449	1.44e-80	263.0
7405	61	465	4.57e-76	251.0
7406	69	466	2.19e-68	231.0
7407	95	465	5.10e-59	206.0
7408	532	935	1.94e-84	285.0
7409	538	924	2.52e-80	274.0
7410	540	924	1.91e-78	269.0
7411	538	924	1.06e-63	228.0
7412	631	924	3.77e-46	177.0
7413	641	924	1.86e-40	159.0
7414	4	288	2.09e-84	268.0
7415	1	263	5.11e-74	240.0
7416	1	288	9.25e-73	237.0
7417	2	261	2.15e-68	226.0
7418	2	288	2.65e-55	191.0
7419	23	288	1.48e-51	181.0
7420	66	345	2.20e-84	269.0
7421	62	345	1.55e-78	254.0
7422	63	344	4.12e-63	213.0
7423	78	345	5.48e-49	175.0
7424	133	345	1.09e-33	133.0
7425	66	351	2.52e-84	270.0
7426	62	319	5.02e-78	253.0
7427	63	347	1.49e-74	244.0
7428	63	344	1.67e-63	215.0
7429	66	316	5.79e-63	213.0
7430	71	353	5.09e-58	200.0

7431	79	345	8.84e-51	181.0
7432	86	426	2.56e-84	272.0
7433	86	428	7.45e-79	258.0
7434	88	428	4.87e-75	248.0
7435	88	371	9.14e-71	236.0
7436	97	428	1.39e-67	228.0
7437	102	428	4.88e-54	191.0
7438	88	341	7.46e-52	186.0
7439	131	429	1.13e-47	174.0
7440	82	415	2.77e-84	271.0
7441	68	415	1.95e-78	256.0
7442	82	365	3.01e-78	256.0
7443	82	390	3.06e-77	253.0
7444	85	415	3.68e-69	232.0
7445	130	418	1.99e-51	184.0
7446	149	415	1.34e-47	174.0
7447	290	418	8.38e-07	53.1
7448	69	421	2.93e-84	272.0
7449	69	421	7.76e-80	260.0
7450	69	403	1.94e-75	249.0
7451	93	421	2.16e-64	219.0
7452	108	421	3.09e-58	203.0
7453	69	294	3.30e-39	150.0
7454	301	421	8.27e-09	59.7
7455	464	867	3.08e-84	283.0
7456	470	856	3.40e-80	272.0
7457	472	856	2.19e-78	268.0
7458	470	856	1.83e-63	226.0
7459	563	856	5.51e-46	176.0
7460	573	856	2.08e-40	159.0
7461	66	345	3.19e-84	269.0
7462	62	345	2.09e-78	254.0
7463	63	344	8.36e-63	213.0
7464	78	345	6.01e-49	175.0
7465	133	345	1.11e-33	133.0
7466	72	398	4.06e-84	271.0
7467	63	381	2.48e-78	256.0
7468	76	400	1.22e-72	241.0
7469	21	398	3.27e-68	229.0
7470	72	323	1.20e-53	190.0
7471	112	402	7.62e-49	177.0
7472	72	398	4.06e-84	271.0
7473	63	381	2.48e-78	256.0

7474	76	400	1.22e-72	241.0
7475	21	398	3.27e-68	229.0
7476	72	323	1.20e-53	190.0
7477	112	402	7.62e-49	177.0
7478	57	342	4.42e-84	269.0
7479	53	310	8.92e-80	258.0
7480	54	338	5.08e-73	240.0
7481	54	335	8.63e-65	218.0
7482	57	307	1.36e-63	215.0
7483	70	336	4.45e-49	176.0
7484	56	393	5.47e-84	271.0
7485	56	372	6.03e-82	265.0
7486	64	396	1.48e-76	251.0
7487	50	396	2.16e-75	248.0
7488	69	404	3.74e-74	245.0
7489	68	396	1.06e-65	223.0
7490	85	393	1.11e-55	196.0
7491	104	392	5.97e-47	172.0
7492	64	289	1.16e-46	171.0
7493	133	396	4.71e-39	150.0
7494	158	393	5.04e-31	127.0
7495	298	404	2.33e-04	45.4
7496	56	393	5.47e-84	271.0
7497	56	372	6.03e-82	265.0
7498	64	396	1.48e-76	251.0
7499	50	396	2.16e-75	248.0
7500	69	404	3.74e-74	245.0
7501	68	396	1.06e-65	223.0
7502	85	393	1.11e-55	196.0
7503	104	392	5.97e-47	172.0
7504	64	289	1.16e-46	171.0
7505	133	396	4.71e-39	150.0
7506	158	393	5.04e-31	127.0
7507	298	404	2.33e-04	45.4
7508	35	310	6.18e-84	269.0
7509	35	310	1.49e-82	265.0
7510	31	287	6.06e-82	263.0
7511	32	310	1.34e-74	244.0
7512	47	310	2.23e-49	177.0
7513	95	312	3.68e-39	149.0
7514	76	389	7.48e-84	270.0
7515	74	364	1.28e-76	251.0
7516	68	386	2.81e-65	221.0

7517	76	334	6.54e-61	209.0
7518	73	306	5.40e-55	193.0
7519	120	386	4.49e-49	177.0
7520	62	319	8.07e-84	267.0
7521	66	320	3.61e-80	258.0
7522	66	320	9.71e-68	225.0
7523	78	320	2.38e-41	154.0
7524	155	321	1.85e-26	111.0
7525	160	321	1.81e-19	91.3
7526	48	405	8.69e-84	270.0
7527	48	387	2.33e-78	256.0
7528	65	405	1.78e-73	243.0
7529	51	396	4.23e-72	239.0
7530	48	405	1.59e-64	219.0
7531	52	332	2.00e-63	216.0
7532	173	405	9.49e-34	135.0
7533	37	322	8.95e-84	267.0
7534	33	290	4.72e-79	255.0
7535	34	318	3.44e-72	237.0
7536	34	315	2.08e-64	216.0
7537	42	324	5.37e-58	199.0
7538	50	316	2.41e-49	176.0
7539	84	465	1.20e-83	271.0
7540	80	440	2.11e-81	266.0
7541	80	465	1.91e-74	247.0
7542	80	416	6.44e-73	243.0
7543	92	465	2.09e-61	213.0
7544	80	386	1.09e-57	202.0
7545	334	470	4.75e-08	57.4
7546	346	470	3.21e-05	48.1
7547	14	356	1.30e-83	268.0
7548	22	333	5.21e-83	266.0
7549	29	356	6.98e-74	242.0
7550	21	304	2.83e-64	217.0
7551	31	357	6.98e-60	205.0
7552	32	352	1.74e-53	188.0
7553	13	192	8.80e-29	119.0
7554	75	422	1.40e-83	270.0
7555	77	401	7.28e-82	265.0
7556	67	422	4.61e-70	234.0
7557	102	422	7.20e-57	199.0
7558	75	289	5.00e-50	181.0
7559	50	261	7.23e-44	164.0

7560	22	339	2.81e-83	267.0
7561	14	356	3.91e-83	266.0
7562	21	356	1.08e-74	244.0
7563	27	304	1.15e-62	213.0
7564	31	357	1.40e-59	204.0
7565	32	353	5.38e-53	187.0
7566	13	192	1.01e-29	122.0
7567	55	389	3.97e-83	268.0
7568	55	354	9.07e-79	256.0
7569	55	389	6.57e-73	241.0
7570	5	389	3.70e-63	215.0
7571	103	391	2.10e-56	197.0
7572	19	252	1.72e-53	189.0
7573	263	391	1.40e-06	52.4
7574	189	620	4.74e-83	275.0
7575	194	638	1.08e-75	255.0
7576	263	638	5.33e-53	194.0
7577	289	638	5.60e-48	179.0
7578	65	349	5.14e-83	266.0
7579	67	349	2.45e-82	264.0
7580	67	349	6.04e-82	263.0
7581	61	323	2.07e-81	262.0
7582	67	349	8.84e-74	242.0
7583	69	349	1.84e-70	233.0
7584	70	349	1.64e-58	201.0
7585	77	349	9.49e-52	183.0
7586	299	350	1.90e-01	35.8
7587	62	371	6.73e-83	266.0
7588	62	370	7.10e-83	266.0
7589	62	371	2.89e-75	246.0
7590	62	368	2.45e-72	239.0
7591	62	320	1.74e-69	231.0
7592	77	371	4.17e-53	187.0
7593	129	371	3.09e-35	138.0
7594	24	441	8.20e-83	268.0
7595	79	441	2.98e-81	265.0
7596	79	416	1.16e-77	255.0
7597	79	414	1.35e-77	255.0
7598	82	388	9.90e-83	266.0
7599	50	353	4.61e-80	259.0
7600	50	388	1.25e-78	256.0
7601	82	362	1.06e-73	243.0
7602	82	388	1.61e-69	232.0

7603	85	388	6.35e-65	219.0
7604	94	390	7.92e-58	201.0
7605	149	387	2.59e-33	133.0
7606	24	441	1.01e-82	268.0
7607	79	441	1.21e-81	265.0
7608	79	414	2.59e-77	254.0
7609	79	416	3.10e-77	254.0
7610	56	366	1.05e-82	266.0
7611	56	365	1.67e-81	263.0
7612	48	337	1.49e-73	242.0
7613	54	365	6.85e-67	224.0
7614	49	284	7.54e-58	200.0
7615	69	365	2.77e-57	198.0
7616	56	366	1.05e-82	266.0
7617	56	365	1.67e-81	263.0
7618	48	337	1.49e-73	242.0
7619	54	365	6.85e-67	224.0
7620	49	284	7.54e-58	200.0
7621	69	365	2.77e-57	198.0
7622	56	366	1.05e-82	266.0
7623	56	365	1.67e-81	263.0
7624	48	337	1.49e-73	242.0
7625	54	365	6.85e-67	224.0
7626	49	284	7.54e-58	200.0
7627	69	365	2.77e-57	198.0
7628	56	366	1.05e-82	266.0
7629	56	365	1.67e-81	263.0
7630	48	337	1.49e-73	242.0
7631	54	365	6.85e-67	224.0
7632	49	284	7.54e-58	200.0
7633	69	365	2.77e-57	198.0
7634	56	366	1.05e-82	266.0
7635	56	365	1.67e-81	263.0
7636	48	337	1.49e-73	242.0
7637	54	365	6.85e-67	224.0
7638	49	284	7.54e-58	200.0
7639	69	365	2.77e-57	198.0
7640	56	366	1.05e-82	266.0
7641	56	365	1.67e-81	263.0
7642	48	337	1.49e-73	242.0
7643	54	365	6.85e-67	224.0
7644	49	284	7.54e-58	200.0
7645	69	365	2.77e-57	198.0

7646	35	320	1.20e-82	264.0
7647	31	288	2.55e-78	253.0
7648	32	316	7.60e-72	236.0
7649	32	313	1.44e-63	214.0
7650	35	285	2.49e-62	211.0
7651	40	322	2.64e-57	197.0
7652	48	314	2.24e-49	176.0
7653	80	385	1.24e-82	266.0
7654	80	335	2.39e-79	258.0
7655	48	385	2.34e-77	253.0
7656	80	385	5.05e-67	225.0
7657	83	385	1.49e-62	213.0
7658	30	380	7.52e-58	201.0
7659	128	385	1.40e-53	189.0
7660	147	385	4.08e-34	135.0
7661	21	325	1.44e-82	264.0
7662	19	300	3.83e-81	260.0
7663	23	325	1.30e-77	251.0
7664	15	274	9.42e-68	225.0
7665	26	325	1.36e-63	214.0
7666	44	326	7.53e-61	207.0
7667	34	325	3.39e-53	186.0
7668	198	325	2.05e-13	73.2
7669	21	325	1.44e-82	264.0
7670	19	300	3.83e-81	260.0
7671	23	325	1.30e-77	251.0
7672	15	274	9.42e-68	225.0
7673	26	325	1.36e-63	214.0
7674	44	326	7.53e-61	207.0
7675	34	325	3.39e-53	186.0
7676	198	325	2.05e-13	73.2
7677	59	387	2.18e-82	267.0
7678	59	367	5.16e-77	253.0
7679	53	339	4.70e-69	232.0
7680	59	284	3.73e-55	195.0
7681	39	387	2.58e-52	187.0
7682	99	389	1.37e-50	182.0
7683	59	387	2.18e-82	267.0
7684	59	367	5.16e-77	253.0
7685	53	339	4.70e-69	232.0
7686	59	284	3.73e-55	195.0
7687	39	387	2.58e-52	187.0
7688	99	389	1.37e-50	182.0

7689	19	271	2.27e-82	261.0
7690	7	271	2.92e-81	259.0
7691	7	272	9.55e-78	249.0
7692	19	270	7.41e-70	229.0
7693	23	271	4.95e-68	224.0
7694	7	274	1.37e-64	215.0
7695	31	271	2.50e-46	166.0
7696	170	271	6.99e-07	52.8
7697	66	430	2.39e-82	267.0
7698	66	403	3.58e-73	243.0
7699	51	376	1.12e-71	239.0
7700	102	430	8.31e-66	223.0
7701	88	430	5.67e-59	205.0
7702	105	426	1.25e-53	191.0
7703	132	430	1.06e-44	166.0
7704	189	430	9.45e-36	140.0
7705	66	430	2.39e-82	267.0
7706	66	403	3.58e-73	243.0
7707	51	376	1.12e-71	239.0
7708	102	430	8.31e-66	223.0
7709	88	430	5.67e-59	205.0
7710	105	426	1.25e-53	191.0
7711	132	430	1.06e-44	166.0
7712	189	430	9.45e-36	140.0
7713	66	430	2.39e-82	267.0
7714	66	403	3.58e-73	243.0
7715	51	376	1.12e-71	239.0
7716	102	430	8.31e-66	223.0
7717	88	430	5.67e-59	205.0
7718	105	426	1.25e-53	191.0
7719	132	430	1.06e-44	166.0
7720	189	430	9.45e-36	140.0
7721	66	344	2.71e-82	264.0
7722	62	318	1.39e-77	251.0
7723	66	344	2.80e-76	248.0
7724	66	317	2.99e-66	222.0
7725	44	338	5.92e-59	202.0
7726	78	344	7.60e-52	183.0
7727	105	343	1.77e-38	146.0
7728	133	344	9.01e-33	130.0
7729	244	344	4.00e-05	47.8
7730	251	345	7.60e-01	33.9
7731	80	414	3.28e-82	266.0

7732	48	385	5.48e-80	260.0
7733	80	379	8.53e-79	257.0
7734	80	414	1.58e-73	243.0
7735	92	414	1.44e-63	217.0
7736	147	414	5.64e-49	177.0
7737	65	350	4.30e-82	264.0
7738	61	315	1.13e-76	249.0
7739	65	346	5.24e-67	224.0
7740	62	343	2.71e-62	212.0
7741	48	344	7.79e-54	189.0
7742	62	260	2.00e-51	182.0
7743	141	422	5.20e-82	266.0
7744	128	422	5.15e-67	226.0
7745	150	399	7.87e-63	215.0
7746	154	422	1.68e-50	182.0
7747	66	344	5.23e-82	263.0
7748	62	318	1.23e-76	249.0
7749	63	344	3.57e-72	237.0
7750	66	291	1.64e-67	225.0
7751	91	344	1.59e-55	193.0
7752	76	344	1.05e-53	188.0
7753	283	345	6.00e-02	37.7
7754	59	387	5.91e-82	265.0
7755	59	367	1.16e-76	251.0
7756	53	339	9.97e-69	230.0
7757	59	284	7.23e-55	193.0
7758	39	387	1.83e-52	186.0
7759	62	319	6.38e-82	262.0
7760	66	320	4.60e-80	257.0
7761	66	320	1.31e-72	238.0
7762	71	320	1.90e-56	195.0
7763	79	320	1.02e-47	171.0
7764	142	321	2.47e-27	114.0
7765	33	344	6.48e-82	263.0
7766	22	344	3.89e-80	258.0
7767	33	344	2.33e-77	251.0
7768	33	294	1.01e-72	239.0
7769	34	322	4.86e-71	234.0
7770	34	344	1.43e-62	212.0
7771	36	292	1.15e-57	199.0
7772	53	341	2.16e-53	187.0
7773	135	344	5.77e-26	110.0
7774	213	628	6.62e-82	271.0

7775	197	605	1.48e-73	249.0
7776	328	628	2.20e-53	194.0
7777	340	626	2.79e-51	188.0
7778	420	628	7.99e-28	120.0
7779	218	384	2.60e-02	38.9
7780	234	693	1.03e-81	273.0
7781	52	613	1.73e-78	264.0
7782	49	368	3.55e-65	228.0
7783	51	366	5.54e-63	222.0
7784	67	422	6.28e-52	191.0
7785	54	286	2.90e-33	137.0
7786	530	671	1.69e-32	134.0
7787	542	688	3.05e-15	80.9
7788	635	693	2.50e-02	39.3
7789	57	333	1.25e-81	262.0
7790	57	332	1.90e-76	248.0
7791	53	310	6.96e-74	241.0
7792	57	332	1.84e-69	230.0
7793	57	332	2.99e-63	213.0
7794	64	335	1.78e-61	209.0
7795	69	332	4.57e-47	170.0
7796	131	333	7.52e-38	144.0
7797	180	329	5.32e-15	78.2
7798	245	335	7.00e-03	40.4
7799	51	357	1.35e-81	263.0
7800	51	357	9.55e-80	258.0
7801	51	306	2.75e-75	246.0
7802	30	359	1.05e-56	197.0
7803	71	561	1.75e-81	282.0
7804	56	536	1.05e-80	280.0
7805	171	767	1.03e-71	253.0
7806	141	637	1.54e-71	253.0
7807	296	898	3.63e-69	246.0
7808	52	421	4.64e-69	246.0
7809	270	833	2.82e-67	240.0
7810	969	1465	2.44e-63	229.0
7811	52	395	7.87e-60	218.0
7812	486	998	1.16e-57	212.0
7813	774	1329	5.97e-53	198.0
7814	53	297	2.50e-36	147.0
7815	1297	1485	4.72e-09	61.2
7816	40	332	2.04e-81	261.0
7817	49	332	1.00e-80	259.0

7818	49	307	1.02e-76	249.0
7819	41	332	3.50e-72	237.0
7820	62	332	4.20e-60	205.0
7821	41	251	1.45e-59	203.0
7822	48	325	4.06e-55	192.0
7823	68	332	2.26e-44	162.0
7824	233	325	3.70e-02	38.1
7825	81	411	2.53e-81	264.0
7826	81	386	3.72e-76	250.0
7827	81	411	2.66e-75	248.0
7828	61	362	2.91e-72	240.0
7829	32	411	9.76e-69	231.0
7830	89	411	2.81e-54	192.0
7831	81	249	3.89e-32	130.0
7832	82	387	2.62e-81	263.0
7833	82	362	4.87e-77	252.0
7834	82	337	3.68e-75	247.0
7835	32	387	4.81e-72	238.0
7836	1	390	4.81e-56	196.0
7837	129	485	2.78e-81	266.0
7838	116	432	4.21e-69	234.0
7839	129	460	7.23e-69	233.0
7840	119	485	8.87e-66	225.0
7841	220	478	6.57e-48	176.0
7842	241	485	4.09e-43	163.0
7843	251	487	6.78e-33	134.0
7844	274	485	4.12e-26	113.0
7845	100	413	3.46e-81	263.0
7846	77	360	4.36e-77	253.0
7847	89	385	5.60e-74	244.0
7848	1	407	8.36e-62	212.0
7849	200	408	1.51e-25	110.0
7850	71	561	5.72e-81	281.0
7851	56	536	3.02e-80	279.0
7852	171	767	1.83e-71	253.0
7853	141	637	3.35e-71	252.0
7854	52	421	1.33e-68	244.0
7855	1666	2162	3.97e-63	228.0
7856	52	395	2.36e-59	217.0
7857	1116	1621	1.13e-58	215.0
7858	1357	1870	8.40e-57	209.0
7859	486	991	5.64e-56	207.0
7860	1442	2026	7.38e-56	207.0

7861	513	1120	2.47e-53	199.0
7862	790	1326	2.26e-52	196.0
7863	629	1267	2.53e-50	190.0
7864	891	1530	1.73e-49	187.0
7865	53	297	4.80e-36	147.0
7866	1994	2182	5.05e-09	61.2
7867	62	347	6.40e-81	261.0
7868	65	347	3.23e-79	256.0
7869	63	344	2.44e-66	222.0
7870	44	353	6.20e-57	197.0
7871	188	349	2.35e-17	85.5
7872	45	357	7.88e-81	260.0
7873	51	357	2.40e-78	254.0
7874	37	307	3.56e-71	235.0
7875	42	335	1.06e-69	231.0
7876	42	357	8.48e-63	213.0
7877	50	305	4.00e-56	195.0
7878	66	354	2.86e-54	190.0
7879	205	357	2.39e-15	79.3
7880	148	764	0.00e+00	557.0
7881	2	567	8.79e-180	535.0
7882	5	596	9.03e-179	532.0
7883	33	652	1.31e-177	529.0
7884	83	764	2.97e-173	518.0
7885	2	512	3.73e-154	468.0
7886	313	765	1.67e-133	415.0
7887	108	696	0.00e+00	546.0
7888	245	697	1.43e-127	397.0
7889	33	624	0.00e+00	545.0
7890	61	652	1.02e-178	535.0
7891	173	765	6.77e-176	527.0
7892	152	736	1.12e-172	519.0
7893	229	821	6.27e-172	517.0
7894	4	568	1.01e-170	514.0
7895	3	540	8.58e-164	496.0
7896	297	850	3.41e-150	461.0
7897	2	288	7.16e-73	255.0
7898	4	67	7.94e-11	67.0
7899	89	708	0.00e+00	537.0
7900	65	652	2.14e-175	523.0
7901	62	764	3.50e-171	512.0
7902	257	765	2.39e-139	430.0
7903	26	607	1.17e-179	529.0

7904	24	528	8.43e-150	452.0
7905	21	467	5.51e-148	447.0
7906	102	608	1.55e-136	418.0
7907	174	610	4.92e-122	380.0
7908	183	607	3.59e-85	283.0
7909	22	606	2.41e-179	528.0
7910	42	618	9.34e-170	504.0
7911	17	522	1.26e-156	470.0
7912	20	497	5.07e-147	445.0
7913	111	618	6.12e-115	362.0
7914	321	618	1.42e-31	132.0
7915	89	678	2.47e-179	530.0
7916	5	596	2.28e-177	525.0
7917	33	652	5.92e-175	519.0
7918	2	568	1.53e-174	518.0
7919	1	428	2.54e-140	430.0
7920	72	680	5.30e-179	558.0
7921	201	792	1.94e-172	540.0
7922	733	1350	1.87e-166	524.0
7923	313	904	1.06e-164	520.0
7924	460	1185	2.32e-164	518.0
7925	1068	1661	1.17e-161	511.0
7926	225	959	1.31e-156	498.0
7927	68	624	2.50e-156	497.0
7928	63	568	2.39e-143	462.0
7929	62	403	9.05e-93	319.0
7930	68	652	5.93e-179	530.0
7931	79	686	3.36e-174	518.0
7932	66	624	4.10e-168	502.0
7933	201	688	1.91e-125	392.0
7934	397	693	2.24e-57	209.0
7935	318	909	8.65e-179	542.0
7936	150	741	9.72e-175	532.0
7937	112	713	3.18e-172	525.0
7938	430	1021	5.05e-169	517.0
7939	402	993	5.20e-168	514.0
7940	458	1049	3.57e-167	512.0
7941	69	657	8.63e-167	511.0
7942	28	601	2.03e-163	503.0
7943	486	1071	1.50e-161	498.0
7944	52	240	1.92e-40	162.0
7945	86	668	5.28e-178	529.0
7946	133	718	5.14e-169	506.0

7947	62	640	1.76e-166	499.0
7948	110	718	2.25e-141	434.0
7949	46	362	3.77e-77	265.0
7950	565	722	7.02e-24	108.0
7951	116	735	5.63e-178	538.0
7952	4	595	1.78e-176	535.0
7953	256	875	3.07e-176	534.0
7954	234	931	1.13e-172	525.0
7955	172	791	1.30e-171	522.0
7956	60	651	3.37e-171	521.0
7957	222	959	1.99e-167	511.0
7958	3	539	1.06e-162	499.0
7959	435	1014	8.03e-160	491.0
7960	492	1018	3.28e-138	435.0
7961	1	259	3.91e-72	256.0
7962	264	855	8.32e-178	534.0
7963	4	575	1.17e-175	529.0
7964	96	687	1.40e-174	526.0
7965	12	603	2.75e-174	525.0
7966	292	883	2.43e-173	523.0
7967	40	632	4.19e-173	522.0
7968	108	715	7.57e-173	521.0
7969	320	907	1.42e-164	500.0
7970	376	908	1.92e-150	463.0
7971	1	407	1.09e-120	385.0
7972	198	791	1.73e-177	535.0
7973	33	624	2.19e-176	532.0
7974	2	568	3.06e-174	526.0
7975	313	958	1.10e-171	520.0
7976	61	652	7.12e-171	518.0
7977	509	959	7.25e-120	384.0
7978	90	670	3.15e-177	537.0
7979	203	841	9.36e-177	536.0
7980	91	700	1.30e-176	535.0
7981	321	953	2.28e-174	530.0
7982	142	728	4.51e-174	529.0
7983	275	864	4.25e-173	526.0
7984	191	812	4.88e-173	526.0
7985	415	1008	1.23e-162	499.0
7986	443	1035	3.44e-161	495.0
7987	78	589	3.30e-153	474.0
7988	748	1035	7.14e-58	214.0
7989	223	876	7.39e-177	533.0

7990	145	736	1.29e-173	524.0
7991	117	708	8.32e-172	520.0
7992	89	680	3.35e-169	513.0
7993	187	792	4.05e-168	510.0
7994	369	937	7.02e-163	496.0
7995	192	783	8.67e-177	528.0
7996	171	758	6.02e-176	526.0
7997	264	791	2.53e-149	457.0
7998	840	1435	1.38e-176	548.0
7999	335	1068	4.43e-175	543.0
8000	362	1152	2.20e-174	541.0
8001	139	816	3.11e-174	541.0
8002	64	653	3.09e-172	536.0
8003	292	1017	2.33e-171	534.0
8004	728	1320	4.55e-170	530.0
8005	125	737	1.13e-168	526.0
8006	784	1404	8.65e-165	516.0
8007	588	1213	4.27e-163	512.0
8008	62	536	9.81e-145	462.0
8009	1092	1509	1.75e-108	363.0
8010	7	618	1.12e-175	519.0
8011	48	425	1.06e-107	343.0
8012	163	618	2.71e-85	284.0
8013	4	572	2.11e-175	516.0
8014	6	567	7.39e-175	515.0
8015	38	572	2.97e-106	338.0
8016	1	259	5.78e-73	249.0
8017	1	585	3.71e-175	516.0
8018	1	140	1.55e-30	129.0
8019	26	583	6.66e-175	516.0
8020	24	554	3.36e-165	491.0
8021	47	583	8.42e-165	490.0
8022	11	503	1.54e-150	453.0
8023	128	585	3.58e-119	372.0
8024	183	583	6.79e-82	274.0
8025	185	765	1.32e-174	530.0
8026	286	877	6.39e-171	520.0
8027	370	989	1.76e-170	519.0
8028	5	597	2.70e-170	518.0
8029	230	821	2.82e-170	518.0
8030	314	905	3.20e-170	518.0
8031	454	1018	4.89e-168	512.0
8032	2	572	6.02e-160	491.0

8033	510	1019	2.10e-141	443.0
8034	958	1022	1.27e-05	50.4
8035	84	666	1.98e-174	522.0
8036	108	802	3.62e-174	521.0
8037	110	692	1.23e-173	520.0
8038	187	780	2.32e-170	512.0
8039	61	638	2.84e-166	501.0
8040	212	803	1.16e-145	448.0
8041	80	500	2.16e-127	400.0
8042	439	806	3.85e-98	323.0
8043	37	276	1.99e-46	179.0
8044	548	1139	2.38e-174	557.0
8045	576	1167	2.64e-173	554.0
8046	1024	1618	9.27e-171	546.0
8047	716	1307	1.92e-169	543.0
8048	367	999	3.72e-169	542.0
8049	336	942	7.60e-169	541.0
8050	772	1366	9.40e-169	541.0
8051	1078	1671	2.74e-168	540.0
8052	800	1391	1.14e-167	538.0
8053	910	1503	1.22e-166	535.0
8054	1444	2035	6.25e-166	533.0
8055	884	1475	6.79e-165	530.0
8056	296	887	2.47e-164	528.0
8057	1171	1755	3.13e-164	528.0
8058	2060	2651	3.39e-164	528.0
8059	1136	1727	4.49e-163	525.0
8060	1864	2455	5.09e-163	525.0
8061	2228	2819	1.68e-162	523.0
8062	128	719	1.69e-162	523.0
8063	80	663	4.78e-162	521.0
8064	1694	2315	1.21e-161	520.0
8065	2256	2847	3.62e-161	519.0
8066	1948	2539	7.88e-161	518.0
8067	1808	2399	2.42e-160	516.0
8068	159	747	6.45e-160	515.0
8069	2088	2679	6.45e-160	515.0
8070	1500	2091	7.60e-160	515.0
8071	1276	1870	4.70e-159	513.0
8072	1248	1838	7.67e-159	512.0
8073	1192	1783	1.00e-158	512.0
8074	1584	2175	1.26e-156	506.0
8075	240	831	5.78e-156	504.0

8076	1304	1895	4.76e-155	501.0
8077	1295	1923	7.99e-155	501.0
8078	212	803	2.09e-153	496.0
8079	1556	2147	5.69e-152	493.0
8080	2340	2876	1.74e-141	462.0
8081	85	330	9.14e-58	216.0
8082	116	707	4.08e-174	518.0
8083	88	679	1.25e-171	512.0
8084	68	651	9.57e-171	509.0
8085	346	709	2.01e-62	224.0
8086	158	749	1.94e-173	524.0
8087	354	937	9.42e-169	512.0
8088	96	861	1.46e-168	511.0
8089	1	581	1.49e-167	509.0
8090	292	889	2.77e-167	508.0
8091	326	917	6.28e-166	505.0
8092	274	890	2.02e-173	523.0
8093	105	750	4.49e-163	496.0
8094	86	694	9.40e-156	478.0
8095	82	587	1.11e-144	449.0
8096	79	638	3.72e-144	447.0
8097	416	891	2.63e-126	400.0
8098	53	503	4.90e-110	357.0
8099	62	278	3.84e-48	185.0
8100	145	736	2.94e-173	523.0
8101	2	568	6.36e-172	520.0
8102	201	792	9.76e-169	512.0
8103	195	932	7.95e-168	509.0
8104	8	596	7.93e-167	507.0
8105	334	936	3.39e-152	469.0
8106	61	652	4.71e-173	514.0
8107	89	680	2.04e-172	513.0
8108	17	624	3.75e-167	499.0
8109	5	596	1.48e-164	493.0
8110	80	685	4.80e-160	481.0
8111	3	540	8.58e-158	475.0
8112	67	684	1.45e-152	462.0
8113	665	1272	1.22e-172	535.0
8114	793	1380	6.70e-171	530.0
8115	625	1219	8.86e-167	519.0
8116	145	742	1.31e-166	518.0
8117	566	1191	7.12e-165	514.0
8118	66	513	7.58e-131	423.0

8119	62	401	2.65e-97	331.0
8120	146	769	1.33e-172	516.0
8121	6	601	3.29e-164	495.0
8122	118	713	3.59e-164	494.0
8123	1	573	1.60e-163	493.0
8124	204	773	1.60e-155	472.0
8125	1	490	2.20e-144	443.0
8126	260	774	1.46e-142	439.0
8127	59	652	1.48e-172	526.0
8128	89	680	1.05e-165	508.0
8129	263	1045	2.40e-165	507.0
8130	425	1070	4.16e-164	504.0
8131	5	596	5.45e-163	501.0
8132	145	736	7.00e-162	498.0
8133	173	764	6.15e-159	490.0
8134	4	568	1.17e-153	476.0
8135	593	1071	2.30e-115	375.0
8136	675	1071	6.52e-91	309.0
8137	2	260	3.39e-64	233.0
8138	191	782	2.75e-172	521.0
8139	219	810	3.78e-170	516.0
8140	331	950	3.21e-168	511.0
8141	387	951	8.49e-155	476.0
8142	56	614	1.45e-145	452.0
8143	404	997	2.91e-172	534.0
8144	378	969	8.65e-170	528.0
8145	194	801	2.20e-169	526.0
8146	480	1081	2.41e-168	524.0
8147	329	913	3.14e-168	523.0
8148	294	885	5.83e-168	523.0
8149	126	717	1.70e-167	521.0
8150	623	1249	9.20e-167	520.0
8151	98	689	1.19e-165	516.0
8152	598	1333	2.53e-164	513.0
8153	546	1137	2.08e-162	508.0
8154	266	857	2.70e-162	508.0
8155	462	1053	9.10e-162	506.0
8156	721	1417	7.96e-159	498.0
8157	72	633	2.39e-149	473.0
8158	910	1422	8.84e-135	434.0
8159	404	997	2.91e-172	534.0
8160	378	969	8.65e-170	528.0
8161	194	801	2.20e-169	526.0

8162	480	1081	2.41e-168	524.0
8163	329	913	3.14e-168	523.0
8164	294	885	5.83e-168	523.0
8165	126	717	1.70e-167	521.0
8166	623	1249	9.20e-167	520.0
8167	98	689	1.19e-165	516.0
8168	598	1333	2.53e-164	513.0
8169	546	1137	2.08e-162	508.0
8170	266	857	2.70e-162	508.0
8171	462	1053	9.10e-162	506.0
8172	721	1417	7.96e-159	498.0
8173	72	633	2.39e-149	473.0
8174	910	1422	8.84e-135	434.0
8175	61	652	3.97e-172	526.0
8176	173	767	3.36e-171	524.0
8177	2	568	4.44e-168	516.0
8178	5	596	1.59e-167	514.0
8179	151	848	1.61e-164	506.0
8180	283	938	1.55e-161	499.0
8181	509	1135	2.07e-161	498.0
8182	232	823	4.06e-160	495.0
8183	20	621	4.81e-172	526.0
8184	168	761	1.04e-171	525.0
8185	422	1013	6.24e-168	515.0
8186	198	789	4.37e-167	513.0
8187	500	1094	3.36e-166	510.0
8188	282	873	9.45e-165	506.0
8189	394	985	8.89e-163	501.0
8190	7	565	4.41e-161	497.0
8191	336	932	2.16e-159	493.0
8192	4	509	2.98e-150	469.0
8193	3	481	3.80e-141	445.0
8194	7	400	1.38e-119	387.0
8195	685	1382	2.75e-171	536.0
8196	634	1242	7.07e-171	535.0
8197	847	1438	7.30e-170	533.0
8198	931	1523	1.69e-169	532.0
8199	89	710	1.45e-168	529.0
8200	540	1133	8.28e-164	516.0
8201	903	1494	3.75e-161	509.0
8202	875	1466	4.61e-161	509.0
8203	68	682	8.74e-161	508.0
8204	1071	1659	7.69e-149	476.0

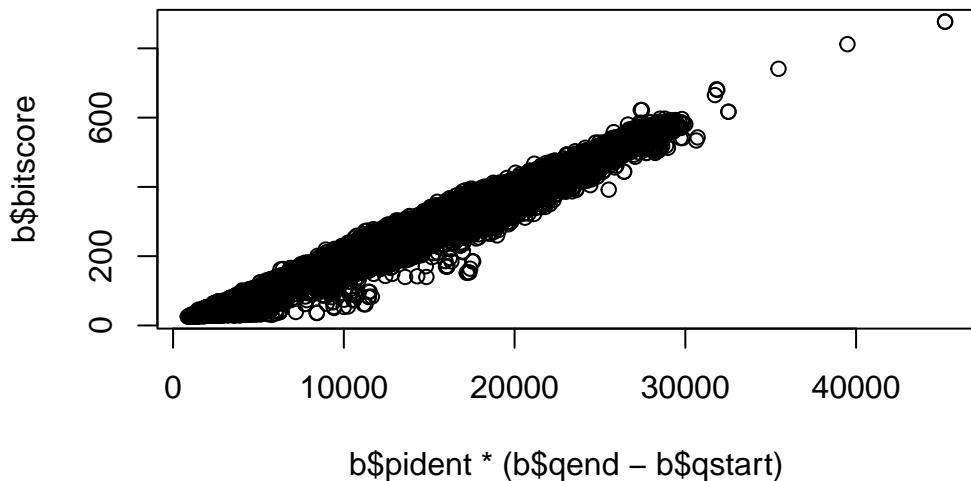
8205	63	568	1.52e-142	459.0
8206	62	400	5.48e-96	328.0
8207	308	905	4.63e-171	518.0
8208	125	760	4.63e-169	512.0
8209	62	623	1.19e-167	509.0
8210	59	567	4.09e-147	455.0
8211	62	541	4.48e-145	450.0
8212	532	924	1.50e-98	327.0
8213	315	906	6.23e-171	521.0
8214	455	1074	2.33e-168	515.0
8215	371	962	2.64e-167	512.0
8216	2	570	1.23e-164	505.0
8217	5	598	1.74e-162	499.0
8218	427	1018	3.59e-162	499.0
8219	623	1075	5.30e-116	377.0
8220	153	754	8.66e-171	517.0
8221	79	698	3.88e-170	515.0
8222	296	922	1.07e-168	511.0
8223	135	726	2.67e-168	510.0
8224	219	810	4.84e-163	496.0
8225	54	642	7.04e-161	491.0
8226	53	614	2.14e-157	482.0
8227	359	928	3.93e-157	481.0
8228	55	560	1.46e-146	454.0
8229	52	392	3.29e-98	326.0
8230	51	82	5.90e-01	35.0
8231	117	708	8.76e-171	515.0
8232	199	792	2.51e-170	514.0
8233	89	680	6.22e-167	505.0
8234	260	847	9.06e-167	505.0
8235	61	652	2.13e-166	504.0
8236	285	876	9.78e-163	494.0
8237	5	568	6.79e-158	482.0
8238	509	877	1.59e-86	293.0
8239	2	176	1.93e-45	176.0
8240	965	1556	1.76e-170	536.0
8241	285	912	1.54e-167	528.0
8242	713	1304	5.37e-165	522.0
8243	1021	1612	4.02e-164	519.0
8244	1161	1755	5.28e-163	516.0
8245	445	1052	7.08e-162	513.0
8246	937	1528	8.69e-162	513.0
8247	573	1167	6.09e-161	511.0

8248	853	1475	1.23e-160	510.0
8249	545	1136	1.79e-159	507.0
8250	49	660	1.21e-152	488.0
8251	238	859	1.70e-151	485.0
8252	1217	1780	2.67e-150	482.0
8253	36	604	4.69e-142	459.0
8254	5	492	2.19e-124	410.0
8255	1301	1781	1.54e-117	391.0
8256	254	845	2.75e-170	515.0
8257	282	873	2.09e-167	507.0
8258	226	817	7.62e-167	506.0
8259	205	789	4.91e-166	504.0
8260	94	705	9.44e-162	493.0
8261	57	649	7.92e-161	490.0
8262	310	884	5.09e-160	488.0
8263	35	593	1.92e-149	461.0
8264	394	886	1.18e-130	412.0
8265	422	887	1.41e-117	377.0
8266	6	481	4.36e-105	344.0
8267	35	200	4.88e-35	144.0
8268	203	888	3.20e-170	519.0
8269	83	664	4.64e-168	514.0
8270	463	1056	5.91e-166	508.0
8271	379	1000	6.72e-166	508.0
8272	127	720	9.28e-164	502.0
8273	413	1060	4.00e-148	461.0
8274	575	1061	2.18e-120	388.0
8275	743	1061	1.79e-74	263.0
8276	76	245	6.61e-42	166.0
8277	41	625	3.88e-170	520.0
8278	90	673	1.64e-166	510.0
8279	28	597	2.30e-161	496.0
8280	228	990	1.07e-150	469.0
8281	174	795	2.08e-150	468.0
8282	368	1019	7.25e-150	466.0
8283	566	1020	1.40e-91	311.0
8284	4	317	1.25e-77	272.0
8285	40	624	2.65e-169	523.0
8286	677	1267	3.04e-169	522.0
8287	335	1044	9.93e-168	518.0
8288	12	596	2.71e-167	517.0
8289	257	848	1.74e-166	515.0
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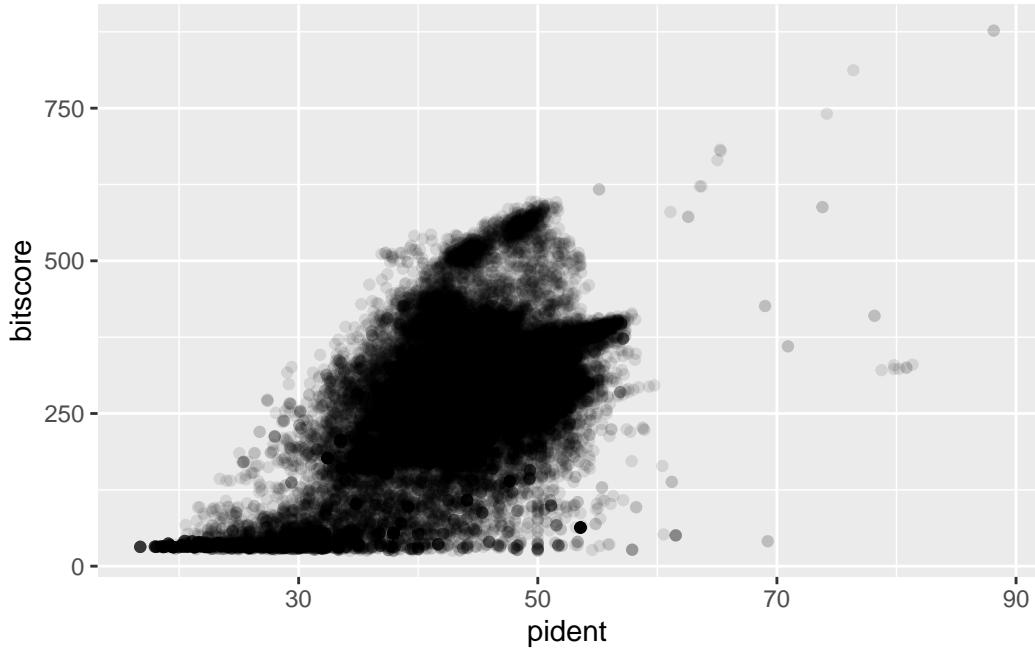
8291	537	1125	1.06e-165	513.0
8292	509	1103	1.11e-164	510.0
8293	285	876	2.53e-163	507.0
8294	145	736	1.62e-162	505.0
8295	176	764	4.69e-162	503.0
8296	89	680	3.01e-160	499.0
8297	61	652	3.56e-160	499.0
8298	117	708	4.33e-158	493.0
8299	2	568	1.91e-157	491.0
8300	733	1271	2.38e-149	470.0
8301	761	1272	2.50e-138	441.0
8302	61	652	2.97e-169	504.0
8303	89	680	1.48e-168	503.0
8304	176	681	1.49e-141	433.0
8305	201	681	2.38e-131	407.0
8306	3	319	3.51e-85	285.0
8307	1	260	4.77e-70	244.0
8308	1	560	3.84e-169	501.0
8309	4	588	5.59e-168	498.0
8310	25	589	2.34e-158	474.0
8311	2	568	7.35e-169	500.0
8312	5	574	4.57e-164	488.0
8313	113	574	3.46e-70	242.0
8314	437	575	5.61e-20	95.9
8315	2	540	8.81e-169	498.0
8316	2	545	2.65e-165	489.0
8317	5	544	1.40e-161	480.0
8318	36	545	4.77e-150	450.0
8319	61	545	1.19e-140	426.0
8320	2	401	1.58e-122	379.0
8321	365	545	8.96e-05	47.4
8322	582	1211	8.99e-169	523.0
8323	4	597	1.08e-167	520.0
8324	368	959	1.15e-166	518.0
8325	32	626	1.58e-166	517.0
8326	340	931	2.21e-166	517.0
8327	144	735	1.12e-163	509.0
8328	715	1325	4.82e-163	508.0
8329	744	1350	5.53e-163	508.0
8330	676	1268	1.19e-162	507.0
8331	88	679	5.81e-162	505.0
8332	172	763	1.90e-161	504.0
8333	200	791	1.35e-160	501.0

```
[ reached 'max' / getOption("max.print") -- omitted 30013 rows ]
```

```
## Assuming your blast results are stored in an object called 'b'  
plot(b$pident * (b$qend - b$qstart), b$bitscore)
```



```
library(ggplot2)  
ggplot(b, aes(pident, bitscore)) + geom_point(alpha=0.1)
```



```
ggplot(b, aes((b$pident * (b$qend - b$qstart)), bitscore)) + geom_point(alpha=0.1) + geom_
```

Warning: Use of `b\$pident` is discouraged. Use `pident` instead.

Warning: Use of `b\$qend` is discouraged. Use `qend` instead.

Warning: Use of `b\$qstart` is discouraged. Use `qstart` instead.

Warning: Use of `b\$pident` is discouraged. Use `pident` instead.

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`geom_smooth()` using method = 'gam' and formula 'y ~ s(x, bs = "cs")'

