

# MiniProject - Pathway Analysis from RNA-Seq Results

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2/27/2022

Pathway analysis helps to interpret gene lists by mapping the gene lists to known biological pathways, processes, and functions.

## Section 1. Differential Expression Analysis

```
library(DESeq2)
```

```
## Loading required package: S4Vectors
```

```
## Loading required package: stats4
```

```
## Loading required package: BiocGenerics
```

```
##
```

```
## Attaching package: 'BiocGenerics'
```

```
## The following objects are masked from 'package:stats':
```

```
##
```

```
##      IQR, mad, sd, var, xtabs
```

```
## The following objects are masked from 'package:base':
```

```
##
```

```
##      anyDuplicated, append, as.data.frame, basename, cbind, colnames,  
##      dirname, do.call, duplicated, eval, evalq, Filter, Find, get, grep,  
##      grepl, intersect, is.unsorted, lapply, Map, mapply, match, mget,  
##      order, paste, pmax, pmax.int, pmin, pmin.int, Position, rank,  
##      rbind, Reduce, rownames, sapply, setdiff, sort, table, tapply,  
##      union, unique, unsplit, which.max, which.min
```

```
##
```

```
## Attaching package: 'S4Vectors'
```

```
## The following objects are masked from 'package:base':
```

```
##
```

```
##      expand.grid, I, unname
```

```
## Loading required package: IRanges
```

```

##
## Attaching package: 'IRanges'

## The following object is masked from 'package:grDevices':
##
##     windows

## Loading required package: GenomicRanges

## Loading required package: GenomeInfoDb

## Loading required package: SummarizedExperiment

## Loading required package: MatrixGenerics

## Loading required package: matrixStats

##
## Attaching package: 'MatrixGenerics'

## The following objects are masked from 'package:matrixStats':
##
##     colAlls, colAnyNAs, colAnys, colAvgsPerRowSet, colCollapse,
##     colCounts, colCummaxs, colCummins, colCumprods, colCumsums,
##     colDiffs, colIQRDiffs, colIQRs, colLogSumExps, colMadDiffs,
##     colMads, colMaxs, colMeans2, colMedians, colMins, colOrderStats,
##     colProds, colQuantiles, colRanges, colRanks, colSdDiffs, colSds,
##     colSums2, colTabulates, colVarDiffs, colVars, colWeightedMads,
##     colWeightedMeans, colWeightedMedians, colWeightedSds,
##     colWeightedVars, rowAlls, rowAnyNAs, rowAnys, rowAvgsPerColSet,
##     rowCollapse, rowCounts, rowCummaxs, rowCummins, rowCumprods,
##     rowCumsums, rowDiffs, rowIQRDiffs, rowIQRs, rowLogSumExps,
##     rowMadDiffs, rowMads, rowMaxs, rowMeans2, rowMedians, rowMins,
##     rowOrderStats, rowProds, rowQuantiles, rowRanges, rowRanks,
##     rowSdDiffs, rowSds, rowSums2, rowTabulates, rowVarDiffs, rowVars,
##     rowWeightedMads, rowWeightedMeans, rowWeightedMedians,
##     rowWeightedSds, rowWeightedVars

## Loading required package: Biobase

## Welcome to Bioconductor
##
##     Vignettes contain introductory material; view with
##     'browseVignettes()'. To cite Bioconductor, see
##     'citation("Biobase")', and for packages 'citation("pkgname)".

##
## Attaching package: 'Biobase'

## The following object is masked from 'package:MatrixGenerics':
##
##     rowMedians

```

```
## The following objects are masked from 'package:matrixStats':
##
## anyMissing, rowMedians
```

```
metaFile <- "GSE37704_metadata.csv"
countFile <- "GSE37704_featurecounts.csv"

# Import metadata and take a peak
colData = read.csv(metaFile, row.names=1)
head(colData)
```

```
##           condition
## SRR493366 control_sirna
## SRR493367 control_sirna
## SRR493368 control_sirna
## SRR493369 hoxa1_kd
## SRR493370 hoxa1_kd
## SRR493371 hoxa1_kd
```

```
# Import countdata
countData = read.csv(countFile, row.names=1)
head(countData)
```

```
##           length SRR493366 SRR493367 SRR493368 SRR493369 SRR493370
## ENSG00000186092      918         0         0         0         0
## ENSG00000279928      718         0         0         0         0
## ENSG00000279457     1982        23        28        29        28
## ENSG00000278566      939         0         0         0         0
## ENSG00000273547      939         0         0         0         0
## ENSG00000187634     3214        124        123        205        212
##           SRR493371
## ENSG00000186092         0
## ENSG00000279928         0
## ENSG00000279457        46
## ENSG00000278566         0
## ENSG00000273547         0
## ENSG00000187634       258
```

Q1. Complete the code below to remove the troublesome first column from countData

We need to remove the “length” col from the countData to make it match the metadata

```
# Note we need to remove the odd first $length col
countData$length <- NULL
as.matrix(countData)
```

```
##           SRR493366 SRR493367 SRR493368 SRR493369 SRR493370 SRR493371
## ENSG00000186092         0         0         0         0         0
## ENSG00000279928         0         0         0         0         0
## ENSG00000279457        23        28        29        29        28        46
## ENSG00000278566         0         0         0         0         0
## ENSG00000273547         0         0         0         0         0
```

## ENSG00000187634	124	123	205	207	212	258
## ENSG00000188976	1637	1831	2383	1226	1326	1504
## ENSG00000187961	120	153	180	236	255	357
## ENSG00000187583	24	48	65	44	48	64
## ENSG00000187642	4	9	16	14	16	16
## ENSG00000188290	31	34	57	172	172	223
## ENSG00000187608	244	289	386	373	422	430
## ENSG00000188157	6547	6758	9367	9853	10483	13037
## ENSG00000237330	0	0	0	0	1	0
## ENSG00000131591	115	135	169	143	174	225
## ENSG00000162571	0	0	0	0	0	0
## ENSG00000186891	2	0	0	0	2	0
## ENSG00000186827	0	0	1	1	2	1
## ENSG00000078808	3355	3427	4634	4963	5313	6517
## ENSG00000176022	555	744	925	950	1059	1339
## ENSG00000184163	4	5	2	6	3	7
## ENSG00000160087	805	943	1261	1300	1439	1811
## ENSG00000162572	18	17	32	36	45	50
## ENSG00000131584	654	794	1010	1198	1279	1657
## ENSG00000169972	186	209	233	225	244	282
## ENSG00000127054	833	852	1144	867	844	1034
## ENSG00000224051	244	292	393	264	272	360
## ENSG00000169962	4	4	9	3	6	11
## ENSG00000107404	829	926	1255	891	983	1179
## ENSG00000162576	3604	3957	5289	6006	6638	7988
## ENSG00000175756	824	929	1210	1084	1088	1385
## ENSG00000221978	943	966	1346	1466	1685	1976
## ENSG00000242485	544	665	774	621	662	767
## ENSG00000235098	0	1	3	1	2	1
## ENSG00000205116	0	0	0	0	0	0
## ENSG00000179403	98	84	109	113	117	139
## ENSG00000215915	1	0	0	1	1	0
## ENSG00000160072	384	508	662	279	337	387
## ENSG00000197785	634	832	1041	513	543	717
## ENSG00000205090	34	30	30	53	39	59
## ENSG00000160075	1422	1679	2153	1805	1960	2327
## ENSG00000279244	0	0	0	0	0	0
## ENSG00000228594	120	147	181	197	223	211
## ENSG00000197530	529	556	753	802	882	1080
## ENSG00000189409	3	3	1	2	3	3
## ENSG00000248333	398	418	511	464	509	601
## ENSG00000189339	1028	1090	1414	2166	2276	2866
## ENSG00000008128	9	14	8	15	12	20
## ENSG00000215790	21	22	32	57	57	90
## ENSG00000008130	749	841	1143	887	1032	1175
## ENSG00000078369	7584	8990	11589	9445	10677	12409
## ENSG00000169885	0	1	1	1	4	2
## ENSG00000178821	2	2	5	1	3	3
## ENSG00000142609	0	0	0	0	0	0
## ENSG00000187730	0	0	0	0	0	0
## ENSG00000067606	19	17	45	42	40	49
## ENSG00000162585	472	550	701	691	737	854
## ENSG00000157933	1648	2062	2658	1274	1450	1626
## ENSG00000116151	26	52	51	37	48	70

## ENSG00000157916	1744	1887	2362	2144	2240	2722
## ENSG00000157911	185	194	269	177	182	256
## ENSG00000149527	30	32	41	21	22	37
## ENSG00000157881	373	391	527	391	432	534
## ENSG00000197921	0	0	0	0	0	0
## ENSG00000157873	12	12	18	29	46	34
## ENSG00000157870	442	522	643	205	222	291
## ENSG00000142606	0	0	1	0	0	1
## ENSG00000215912	2	2	0	3	3	5
## ENSG00000169717	0	0	0	0	0	0
## ENSG00000142611	2	5	3	8	3	3
## ENSG00000130762	0	0	1	2	1	1
## ENSG00000162591	84	92	139	125	142	159
## ENSG00000158109	1298	1549	1825	1956	2135	2471
## ENSG00000116213	157	161	218	189	192	286
## ENSG00000078900	3	0	1	0	1	1
## ENSG00000162592	0	0	3	1	0	0
## ENSG00000235169	7	7	13	7	5	10
## ENSG00000130764	613	692	848	538	558	661
## ENSG00000116198	605	695	871	972	985	1188
## ENSG00000169598	99	98	118	82	92	109
## ENSG00000198912	225	264	319	246	280	335
## ENSG00000196581	2	0	6	3	1	4
## ENSG00000131697	133	143	201	293	270	358
## ENSG00000069424	98	97	158	138	180	177
## ENSG00000116254	3	2	3	8	6	8
## ENSG00000116251	2638	2993	3542	2928	3363	3668
## ENSG00000158286	13	21	30	10	16	11
## ENSG00000116237	2128	2391	3047	1950	2106	2445
## ENSG00000173673	0	0	0	0	0	0
## ENSG00000158292	150	158	227	167	207	230
## ENSG00000097021	1113	1242	1744	1049	1196	1317
## ENSG00000069812	1	1	0	4	7	7
## ENSG00000187017	0	1	0	0	2	1
## ENSG00000215788	30	30	31	69	77	94
## ENSG00000171680	233	278	371	501	549	725
## ENSG00000162408	340	434	499	289	270	353
## ENSG00000173662	0	0	1	0	0	0
## ENSG00000204859	94	82	141	117	133	178
## ENSG00000162413	1203	1347	1818	2641	2503	3258
## ENSG00000116273	434	423	560	486	468	547
## ENSG00000041988	125	135	160	97	120	135
## ENSG00000007923	653	729	911	528	568	645
## ENSG00000171735	243	308	344	271	325	352
## ENSG00000049245	1885	2285	2781	1452	1604	1835
## ENSG00000049246	143	136	170	126	123	194
## ENSG00000049247	0	0	1	1	0	0
## ENSG00000049249	5	3	3	1	0	2
## ENSG00000116288	2035	2304	2878	1917	2127	2365
## ENSG00000116285	2398	3031	3727	1352	2012	1836
## ENSG00000162426	52	57	88	64	69	73
## ENSG00000142599	1494	1592	2084	1093	1100	1306
## ENSG00000074800	21088	23907	30606	9719	11297	12510
## ENSG00000131686	0	0	1	0	0	0

## ENSG00000197241	0	0	0	0	0	0
## ENSG00000142583	1	0	0	0	2	2
## ENSG00000180758	141	156	195	93	93	108
## ENSG00000049239	1497	1716	2066	1255	1429	1687
## ENSG00000171621	410	528	662	595	707	826
## ENSG00000171612	135	151	187	138	193	237
## ENSG00000188807	251	292	403	359	349	434
## ENSG00000171608	515	669	881	395	512	585
## ENSG00000171603	3502	3852	5043	3788	4210	4795
## ENSG00000280113	0	0	0	0	0	0
## ENSG00000178585	294	376	466	318	366	411
## ENSG00000162441	301	349	468	178	211	250
## ENSG00000173614	195	227	278	189	218	233
## ENSG00000162444	0	0	0	1	1	0
## ENSG00000130939	1163	1379	1776	2404	2584	3076
## ENSG00000054523	1496	1685	2001	1457	1786	1836
## ENSG00000142657	3041	3533	4363	3924	4197	5296
## ENSG00000251503	2	2	3	3	3	3
## ENSG00000175279	9	16	19	13	18	18
## ENSG00000241563	2	4	3	3	2	3
## ENSG00000160049	762	891	1138	840	816	1071
## ENSG00000142655	276	298	344	252	319	329
## ENSG00000130940	5	3	8	4	1	4
## ENSG00000175262	0	0	0	0	0	0
## ENSG00000120948	1066	1221	1531	1030	1130	1390
## ENSG00000277726	0	0	1	0	0	0
## ENSG00000009724	12	19	20	11	17	15
## ENSG00000116649	2257	2610	3504	1131	1308	1460
## ENSG00000171824	646	782	1065	733	821	929
## ENSG00000198793	1322	1536	1917	1605	1700	1996
## ENSG00000171819	1	0	2	0	0	1
## ENSG00000120942	223	284	318	219	246	273
## ENSG00000204624	1	2	0	5	5	3
## ENSG00000116661	21	25	36	62	66	78
## ENSG00000132879	195	188	238	212	209	265
## ENSG00000116663	50	62	92	57	67	69
## ENSG00000116670	254	295	425	260	268	345
## ENSG00000162490	2	3	3	27	18	29
## ENSG00000177674	288	302	392	483	470	651
## ENSG00000215910	0	0	0	0	0	0
## ENSG00000177000	210	218	309	305	320	387
## ENSG00000011021	227	262	311	466	450	551
## ENSG00000175206	0	0	0	1	2	2
## ENSG00000120937	2	0	0	2	3	0
## ENSG00000116685	1077	1139	1584	1392	1440	1678
## ENSG00000083444	8049	8686	11522	10145	11007	12454
## ENSG00000116688	1961	2341	3004	2083	2308	2560
## ENSG00000116691	146	143	206	92	129	140
## ENSG00000120949	4	3	6	1	2	1
## ENSG00000028137	268	305	443	206	220	277
## ENSG00000048707	850	1061	1068	1292	1359	1533
## ENSG00000162496	109	114	135	338	363	434
## ENSG00000204518	0	0	0	0	0	0
## ENSG00000188984	0	0	0	0	0	0

## ENSG00000157330	0	0	0	0	0	0
## ENSG00000116726	0	0	0	0	0	0
## ENSG00000116721	0	0	0	0	0	0
## ENSG00000239810	0	0	0	0	0	0
## ENSG00000179172	1	3	1	1	0	1
## ENSG00000120952	0	0	0	0	0	1
## ENSG00000243073	0	0	0	0	0	0
## ENSG00000187545	0	0	0	0	0	0
## ENSG00000204510	0	0	0	0	0	0
## ENSG00000232423	0	0	0	0	0	0
## ENSG00000280267	0	0	0	0	0	0
## ENSG00000274764	0	0	0	0	0	0
## ENSG00000229571	0	0	0	0	0	0
## ENSG00000277058	0	0	0	0	1	0
## ENSG00000275774	0	0	1	0	0	0
## ENSG00000179412	2	2	0	2	1	1
## ENSG00000204505	0	0	0	0	0	0
## ENSG00000279804	0	0	0	0	0	0
## ENSG00000270601	0	0	0	0	0	0
## ENSG00000182330	0	0	0	0	0	0
## ENSG00000204501	0	0	0	0	0	0
## ENSG00000204481	0	0	0	0	0	0
## ENSG00000204480	0	0	0	0	0	0
## ENSG00000204479	0	0	0	0	0	0
## ENSG00000204478	0	0	0	0	0	0
## ENSG00000162494	0	0	0	0	0	0
## ENSG00000162493	34	27	32	49	65	79
## ENSG00000116731	484	505	634	413	450	525
## ENSG00000189337	240	244	360	186	196	234
## ENSG00000171729	229	305	325	748	695	925
## ENSG00000142621	1	0	1	0	2	1
## ENSG00000142634	1205	1351	1774	604	661	754
## ENSG00000162438	0	0	0	0	1	0
## ENSG00000142615	0	0	0	0	0	0
## ENSG00000215704	0	0	0	0	0	0
## ENSG00000132906	70	76	105	105	100	124
## ENSG00000116138	456	509	620	804	832	1024
## ENSG00000116771	11	10	13	14	18	13
## ENSG00000197312	326	411	483	767	871	1054
## ENSG00000215695	0	0	0	0	0	0
## ENSG00000116786	1177	1374	1777	1704	1817	2200
## ENSG00000162461	1	2	1	5	1	4
## ENSG00000162460	0	0	0	0	0	0
## ENSG00000162458	2391	2703	3460	2591	2912	3444
## ENSG00000233954	95	133	125	113	133	138
## ENSG00000065526	786	988	1072	927	912	1101
## ENSG00000116809	355	365	461	425	436	565
## ENSG00000183888	0	0	0	0	0	0
## ENSG00000173641	49	39	70	18	21	18
## ENSG00000186510	0	0	0	0	0	1
## ENSG00000184908	2	0	1	0	0	0
## ENSG00000185519	11	8	15	5	13	16
## ENSG00000142627	1544	1736	2254	2531	2754	3393
## ENSG00000142632	93	94	127	105	125	136

## ENSG00000132881	44	54	81	79	89	109
## ENSG00000037637	376	440	588	438	562	600
## ENSG00000055070	2008	2454	3066	3681	4127	4927
## ENSG00000187144	0	0	0	1	0	0
## ENSG00000157191	1133	1274	1613	1278	1401	1633
## ENSG00000268991	0	0	0	0	0	0
## ENSG00000219481	302	338	453	314	359	412
## ENSG00000237847	0	0	0	0	0	0
## ENSG00000279132	0	0	0	0	0	0
## ENSG00000058453	167	222	308	312	361	428
## ENSG00000117122	122	113	140	474	533	632
## ENSG00000159363	622	700	946	908	943	1116
## ENSG00000117118	712	810	1034	496	499	603
## ENSG00000117115	0	0	0	0	0	0
## ENSG00000142623	2	1	6	1	1	1
## ENSG00000142619	0	0	0	0	0	0
## ENSG00000159339	0	0	0	0	0	0
## ENSG00000280226	0	0	0	0	0	0
## ENSG00000276747	0	0	0	0	0	0
## ENSG00000179051	1118	1281	1613	2249	2370	2968
## ENSG00000074964	234	242	316	183	187	246
## ENSG00000117148	0	1	1	0	1	0
## ENSG00000117154	0	0	0	0	0	0
## ENSG00000179023	0	0	0	0	0	0
## ENSG00000009709	0	0	0	0	0	0
## ENSG00000179002	0	0	0	0	0	0
## ENSG00000255275	0	0	0	0	0	0
## ENSG00000159423	146	172	226	218	270	283
## ENSG00000169991	281	313	354	305	352	419
## ENSG00000127481	4629	5261	6394	5585	5913	6845
## ENSG00000127463	2522	2688	3537	2067	2306	2602
## ENSG00000053372	658	765	1003	484	559	704
## ENSG00000162482	3	3	4	2	4	4
## ENSG00000053371	488	536	698	580	632	687
## ENSG00000040487	225	237	311	407	380	555
## ENSG00000077549	4480	5250	6729	4536	5206	5865
## ENSG00000173436	166	185	235	159	178	220
## ENSG00000270136	0	0	0	0	0	0
## ENSG00000158747	168	213	245	156	177	164
## ENSG00000158748	0	1	0	0	0	0
## ENSG00000162542	116	153	214	89	114	144
## ENSG00000178828	0	0	0	0	0	0
## ENSG00000169914	178	239	252	236	255	279
## ENSG00000188784	0	0	0	0	0	0
## ENSG00000188257	0	0	0	0	0	0
## ENSG00000127472	0	0	5	2	0	1
## ENSG00000117215	0	0	0	0	0	0
## ENSG00000158786	0	0	0	0	0	0
## ENSG00000187980	0	0	0	0	0	0
## ENSG00000162543	0	0	0	0	0	1
## ENSG00000158816	0	0	0	1	0	0
## ENSG00000162545	1700	2036	2547	1811	1943	2280
## ENSG00000090432	487	508	742	622	603	822
## ENSG00000183114	2	0	5	2	3	8



## ENSG00000158825	21	25	28	4	0	1
## ENSG00000158828	394	409	556	304	361	407
## ENSG00000244038	3602	3980	5079	4742	5243	6208
## ENSG00000117245	94	106	130	44	50	70
## ENSG00000189410	346	391	525	213	266	237
## ENSG00000127483	2140	2694	3185	2755	3299	3699
## ENSG00000075151	2473	2900	3632	4436	4758	6089
## ENSG00000117298	6816	7555	9939	9514	9984	11905
## ENSG00000142794	169	192	212	169	230	238
## ENSG00000162551	38	41	53	19	33	39
## ENSG00000076864	2	1	5	7	11	14
## ENSG00000090686	947	1094	1360	1069	1226	1361
## ENSG00000187942	2	4	2	1	4	3
## ENSG00000142798	9722	10493	14631	8262	8640	10332
## ENSG00000219073	0	0	0	0	0	0
## ENSG00000142789	0	0	0	0	0	0
## ENSG00000070831	3691	4471	5411	4343	5123	5827
## ENSG00000162552	2	2	1	5	3	8
## ENSG00000184677	342	386	523	637	614	815
## ENSG00000070886	0	0	0	0	0	1
## ENSG00000173372	0	0	0	0	0	0
## ENSG00000159189	0	0	0	0	0	0
## ENSG00000173369	0	0	0	0	0	0
## ENSG00000133216	2513	3126	3977	3059	3192	3720
## ENSG00000215906	0	0	0	0	0	0
## ENSG00000227868	0	0	0	0	0	0
## ENSG00000004487	1384	1596	1980	1994	2247	2597
## ENSG00000169641	1542	1893	2200	1654	1826	2131
## ENSG00000179546	3	2	5	6	10	11
## ENSG00000125944	2070	2482	2979	1186	1406	1597
## ENSG00000125945	188	201	240	276	282	325
## ENSG00000204219	42	48	69	13	20	28
## ENSG00000088280	255	326	404	333	354	397
## ENSG00000007968	11	18	17	7	6	5
## ENSG00000117318	585	663	857	1275	1296	1713
## ENSG00000197880	0	0	0	1	1	3
## ENSG00000142676	6072	7118	8659	5086	5916	6538
## ENSG00000011007	1192	1290	1596	878	1032	1264
## ENSG00000057757	331	476	530	390	410	432
## ENSG00000011009	764	889	1171	1812	1873	2391
## ENSG00000117308	242	274	339	243	235	287
## ENSG00000117305	239	300	434	185	223	217
## ENSG00000179163	60	58	96	155	178	197
## ENSG00000188822	0	0	0	1	0	0
## ENSG00000189266	694	790	948	397	455	493
## ENSG00000188529	1231	1465	1875	1140	1447	1683
## ENSG00000142661	2	2	0	2	0	0
## ENSG00000142677	0	0	0	0	0	0
## ENSG00000185436	0	0	0	0	0	0
## ENSG00000158055	0	1	0	1	1	0
## ENSG00000001460	160	198	247	57	81	94
## ENSG00000001461	1824	2178	2776	1932	2128	2321
## ENSG00000117602	190	201	274	142	177	209
## ENSG00000184454	0	0	0	0	0	0

## ENSG00000133226	974	1245	1505	861	962	1090
## ENSG00000169504	11602	13936	16843	11046	13074	15388
## ENSG00000020633	2	1	3	11	11	28
## ENSG00000117614	294	390	398	667	684	824
## ENSG00000117616	214	162	257	411	324	415
## ENSG00000187010	3	2	2	5	10	8
## ENSG00000183726	1161	1369	1771	2177	2377	2821
## ENSG00000188672	6	4	2	4	4	2
## ENSG00000204178	410	457	595	606	702	819
## ENSG00000157978	293	289	387	343	398	413
## ENSG00000117643	265	279	349	464	513	530
## ENSG00000162430	2496	2622	3514	3868	4078	4789
## ENSG00000255054	0	0	0	0	0	0
## ENSG00000117640	522	550	754	588	667	796
## ENSG00000127423	16	40	42	4	12	11
## ENSG00000182749	294	310	394	388	435	541
## ENSG00000117632	2450	3113	3989	2063	2390	2971
## ENSG00000158006	218	312	388	231	250	289
## ENSG00000158008	100	132	175	18	34	29
## ENSG00000158014	0	0	1	1	0	0
## ENSG00000158022	0	0	0	0	0	0
## ENSG00000175087	53	58	76	59	61	72
## ENSG00000197245	0	0	0	0	0	0
## ENSG00000142684	0	2	4	0	0	1
## ENSG00000142675	2	4	3	1	3	1
## ENSG00000188782	0	0	0	0	0	0
## ENSG00000130695	148	181	226	72	81	95
## ENSG00000142669	6050	6659	8780	6631	7247	8542
## ENSG00000158062	88	92	120	99	119	153
## ENSG00000169442	0	1	0	2	0	1
## ENSG00000176092	0	0	0	1	0	1
## ENSG00000176083	0	0	0	0	0	0
## ENSG00000131914	0	0	0	0	1	0
## ENSG00000117682	668	812	971	492	575	609
## ENSG00000198830	1732	2008	2535	1491	1660	1905
## ENSG00000117676	48	46	55	87	92	114
## ENSG00000117713	1610	1804	2344	1694	1762	2103
## ENSG00000060642	122	132	185	122	107	143
## ENSG00000204160	599	742	971	553	634	730
## ENSG00000175793	0	0	0	0	0	0
## ENSG00000142751	432	498	596	481	531	617
## ENSG00000198746	106	119	180	177	201	218
## ENSG00000090273	1495	1600	1980	1256	1403	1737
## ENSG00000131910	0	2	0	0	0	0
## ENSG00000175707	0	0	0	0	0	2
## ENSG00000253368	2204	2483	3211	2925	2905	3782
## ENSG00000158246	72	72	106	20	24	34
## ENSG00000280403	0	0	1	0	0	1
## ENSG00000090020	1380	1417	1842	1592	1661	2071
## ENSG00000142784	795	870	1089	452	540	615
## ENSG00000186501	435	509	572	631	682	839
## ENSG00000142765	3	1	1	2	0	5
## ENSG00000142733	309	327	445	284	323	381
## ENSG00000142748	3	2	2	0	1	0

## ENSG00000174950	0	0	0	0	0	0
## ENSG00000181773	38	58	74	86	92	112
## ENSG00000158195	2069	2324	2979	1882	2062	2209
## ENSG00000126705	519	631	816	468	543	587
## ENSG00000000938	0	0	0	0	0	0
## ENSG00000126709	78	101	129	109	284	141
## ENSG00000009780	74	74	97	93	90	112
## ENSG00000117758	1095	1326	1560	1140	1441	1518
## ENSG00000117751	480	566	767	355	424	475
## ENSG00000278868	0	0	0	0	0	0
## ENSG00000130775	50	53	85	34	44	44
## ENSG00000117748	343	408	493	350	377	420
## ENSG00000130768	0	0	0	0	0	0
## ENSG00000158156	191	244	324	344	363	411
## ENSG00000158161	425	435	537	558	628	712
## ENSG00000169403	0	2	2	2	3	2
## ENSG00000126698	1293	1452	1816	1131	1421	1579
## ENSG00000130770	664	778	910	708	854	922
## ENSG00000130766	684	743	1001	807	813	960
## ENSG00000130772	189	188	253	264	293	378
## ENSG00000204138	489	655	787	435	540	557
## ENSG00000180198	490	555	633	597	508	715
## ENSG00000180098	131	170	222	149	160	188
## ENSG00000120656	250	273	359	350	404	443
## ENSG00000188060	3	3	8	4	1	3
## ENSG00000162419	201	258	343	352	417	513
## ENSG00000198492	1080	1233	1601	1692	1963	2231
## ENSG00000116329	1	0	2	0	1	0
## ENSG00000159023	166	207	242	49	76	68
## ENSG00000253304	82	84	106	32	54	65
## ENSG00000116350	841	879	1170	864	956	1069
## ENSG00000116353	175	185	238	160	206	227
## ENSG00000060656	275	274	396	575	592	751
## ENSG00000162510	5	2	1	3	5	4
## ENSG00000162511	0	1	1	1	2	2
## ENSG00000162512	5075	5584	7127	5143	5667	6053
## ENSG00000134644	1302	1553	1969	1769	2094	2421
## ENSG00000084628	1	0	1	8	2	6
## ENSG00000060688	390	452	505	310	379	434
## ENSG00000121766	464	458	582	553	637	742
## ENSG00000121769	45	45	48	29	50	55
## ENSG00000168528	1691	1743	2425	1577	1718	2015
## ENSG00000142910	5	0	4	4	8	9
## ENSG00000121764	0	0	1	3	0	1
## ENSG00000162517	563	731	928	516	537	694
## ENSG00000084636	2437	2675	3584	1657	2015	2175
## ENSG00000121753	352	381	490	360	402	428
## ENSG00000134668	1267	1489	1894	551	686	673
## ENSG00000184007	3789	4570	5571	4432	5192	5687
## ENSG00000121774	1946	2286	2910	2074	2301	2738
## ENSG00000121775	155	168	230	151	171	222
## ENSG00000025800	1816	2212	2614	2869	3066	3619
## ENSG00000084652	1946	2219	2823	2726	3042	3615
## ENSG00000160050	101	107	140	122	110	141

## ENSG00000160051	11	28	22	7	15	15
## ENSG00000222046	0	0	2	1	3	1
## ENSG00000160055	88	122	136	153	138	195
## ENSG00000084623	2786	3054	3900	1970	2073	2456
## ENSG00000183615	7	4	9	10	7	12
## ENSG00000182866	0	0	1	0	0	0
## ENSG00000116478	1265	1402	1795	1673	1747	2126
## ENSG00000175130	2223	2595	3380	4647	4837	6138
## ENSG00000162526	2	1	3	0	2	4
## ENSG00000225828	9	6	11	16	24	27
## ENSG00000160058	1099	1241	1474	1627	1898	2259
## ENSG00000254553	0	0	0	0	0	0
## ENSG00000273274	0	0	0	0	0	0
## ENSG00000160062	86	98	85	121	144	125
## ENSG00000176261	226	240	327	202	224	273
## ENSG00000162521	1063	1282	1583	2098	2209	2790
## ENSG00000162520	358	420	536	33	56	39
## ENSG00000162522	225	259	345	78	77	99
## ENSG00000134684	2643	3050	3690	1550	1876	1938
## ENSG00000116497	302	339	417	421	419	539
## ENSG00000160097	6	4	4	10	7	5
## ENSG00000121905	0	0	3	2	0	2
## ENSG00000121900	180	193	280	143	187	164
## ENSG00000116514	190	188	244	293	318	390
## ENSG00000004455	1052	1248	1585	808	989	1139
## ENSG00000142920	45	59	99	88	102	102
## ENSG00000116525	282	283	400	259	302	367
## ENSG00000160094	281	332	422	291	356	388
## ENSG00000184389	0	2	0	1	1	0
## ENSG00000134686	1730	2121	2571	2740	2970	3700
## ENSG00000121903	98	102	137	122	115	133
## ENSG00000121904	44	33	47	41	55	35
## ENSG00000176256	0	0	0	0	0	0
## ENSG00000142698	0	0	0	0	0	0
## ENSG00000163866	345	415	529	493	544	649
## ENSG00000189280	1	1	3	2	4	5
## ENSG00000189433	0	0	0	0	0	0
## ENSG00000188910	0	0	0	0	1	0
## ENSG00000187513	0	0	0	0	0	1
## ENSG00000116544	1	0	0	2	2	2
## ENSG00000271741	0	0	0	0	0	1
## ENSG00000243749	1	5	3	8	4	4
## ENSG00000163867	110	129	154	154	184	198
## ENSG00000197056	170	209	217	158	201	199
## ENSG00000116560	3448	3933	5120	3474	4029	4750
## ENSG00000146463	1067	1144	1441	1427	1567	1807
## ENSG00000142687	1151	1321	1669	1954	2071	2468
## ENSG00000020129	1012	1176	1505	1814	1665	2206
## ENSG00000116819	2	0	2	2	2	9
## ENSG00000126067	1631	1926	2314	1882	2102	2432
## ENSG00000142686	389	416	514	576	591	689
## ENSG00000092853	147	201	247	29	51	44
## ENSG00000134698	153	149	203	246	296	345
## ENSG00000092847	775	915	1107	837	938	1107

## ENSG00000126070	259	312	352	344	369	444
## ENSG00000092850	2	0	2	0	0	0
## ENSG00000116863	333	395	467	395	412	493
## ENSG00000171812	33	18	44	9	17	11
## ENSG00000054116	761	837	947	877	928	1115
## ENSG00000116871	3630	4053	5358	4497	4776	5721
## ENSG00000054118	2115	2461	3159	2584	2911	3254
## ENSG00000214193	31	62	58	25	25	46
## ENSG00000142694	508	529	729	944	979	1227
## ENSG00000196182	649	701	913	368	355	454
## ENSG00000181817	320	333	466	429	430	503
## ENSG00000116885	65	69	72	118	100	139
## ENSG00000116898	607	691	844	697	768	897
## ENSG00000119535	0	0	0	0	0	0
## ENSG00000163873	0	0	0	0	0	0
## ENSG00000163874	81	95	115	320	310	419
## ENSG00000163875	551	656	770	857	884	1111
## ENSG00000163877	185	236	290	318	287	410
## ENSG00000163879	104	123	168	140	161	217
## ENSG00000134697	888	1134	1379	969	1143	1303
## ENSG00000169218	0	0	0	0	0	0
## ENSG00000116922	200	168	240	227	220	280
## ENSG00000134690	425	514	667	62	71	62
## ENSG00000183317	0	0	0	0	0	0
## ENSG00000185090	3	6	7	14	11	17
## ENSG00000196449	260	343	408	433	578	657
## ENSG00000197982	473	552	622	735	759	857
## ENSG00000188786	383	480	593	833	808	999
## ENSG00000204084	200	224	272	179	204	212
## ENSG00000183431	1094	1329	1655	1071	1250	1384
## ENSG00000183386	542	595	764	370	416	479
## ENSG00000183520	408	469	585	460	541	642
## ENSG00000185668	0	1	2	5	5	3
## ENSG00000116954	278	333	422	206	216	251
## ENSG00000214114	186	194	294	101	113	125
## ENSG00000274944	0	0	0	1	0	0
## ENSG00000131233	0	0	0	0	1	1
## ENSG00000158315	14	16	19	4	10	10
## ENSG00000174574	1673	2054	2505	603	735	745
## ENSG00000168653	1608	1873	2273	2261	2565	2856
## ENSG00000127603	7928	9277	8969	10809	11875	11946
## ENSG00000183682	2	0	0	3	1	2
## ENSG00000090621	2792	3234	3940	2252	2529	2772
## ENSG00000163909	0	1	2	11	16	13
## ENSG00000116981	0	0	0	0	0	0
## ENSG00000116983	0	0	0	0	0	0
## ENSG00000084072	363	435	506	364	393	466
## ENSG00000116985	2	1	3	2	1	3
## ENSG00000198754	0	0	0	0	0	0
## ENSG00000043514	216	233	305	176	175	228
## ENSG00000116990	5	10	8	9	11	18
## ENSG00000168389	100	130	163	68	92	110
## ENSG00000131236	9827	11549	14647	9258	10614	12003
## ENSG00000131238	620	681	873	557	633	796

## ENSG00000117000	334	356	455	447	464	525
## ENSG00000188800	0	0	0	0	0	0
## ENSG00000084073	1389	1712	2145	1725	1948	2250
## ENSG00000049089	13	26	32	26	25	29
## ENSG00000084070	784	1045	1301	939	1029	1239
## ENSG00000187801	85	129	136	206	218	281
## ENSG00000187815	34	24	48	51	57	76
## ENSG00000164002	62	58	95	87	94	98
## ENSG00000117010	24	31	36	27	34	30
## ENSG00000117016	9	7	9	8	6	6
## ENSG00000066136	324	353	507	365	404	498
## ENSG00000117013	1	0	1	0	1	1
## ENSG00000179862	40	43	59	187	170	264
## ENSG00000171793	927	1063	1385	963	1148	1321
## ENSG00000171790	6	5	7	8	12	13
## ENSG00000010803	339	409	521	337	403	450
## ENSG00000204060	0	0	0	0	0	1
## ENSG00000127129	0	0	0	0	1	0
## ENSG00000127124	176	199	226	100	109	115
## ENSG00000044012	0	0	0	0	0	0
## ENSG00000197273	0	0	0	0	0	0
## ENSG00000198815	536	634	744	673	806	899
## ENSG00000177181	0	0	0	0	0	1
## ENSG00000066185	0	0	1	2	0	1
## ENSG00000127125	196	193	263	275	306	386
## ENSG00000186409	2	2	7	2	5	6
## ENSG00000171960	153	184	226	113	172	128
## ENSG00000065978	9598	10747	13271	8669	9484	11307
## ENSG00000164007	0	0	0	0	0	0
## ENSG00000117385	3242	3549	4733	5533	6050	6975
## ENSG00000164008	85	83	139	91	106	99
## ENSG00000177868	87	94	115	186	218	294
## ENSG00000164010	134	154	189	135	174	212
## ENSG00000164011	54	69	79	60	71	85
## ENSG00000117394	2311	2562	3411	4665	5407	5777
## ENSG00000186973	0	1	0	1	0	2
## ENSG00000117395	1060	1090	1491	686	770	986
## ENSG00000243710	6	1	3	3	3	3
## ENSG00000179178	0	0	0	0	0	0
## ENSG00000253313	1	0	0	0	0	0
## ENSG00000066056	52	30	75	20	34	37
## ENSG00000117400	0	0	0	0	0	0
## ENSG00000117399	713	901	1261	92	123	125
## ENSG00000066322	1604	1798	2396	1552	1708	2095
## ENSG00000159479	703	778	986	597	699	716
## ENSG00000198198	491	446	613	579	563	688
## ENSG00000178922	100	111	119	95	92	122
## ENSG00000142949	3264	3587	4742	2311	2597	2699
## ENSG00000066135	784	843	1119	868	963	1175
## ENSG00000126091	154	227	256	148	162	142
## ENSG00000117407	3	0	3	3	0	1
## ENSG00000117408	647	657	983	775	804	995
## ENSG00000132768	295	337	456	235	268	316
## ENSG00000117410	954	1109	1329	1976	1992	2338

## ENSG00000117411	1228	1436	1766	1014	1111	1229
## ENSG00000159214	30	31	39	19	22	35
## ENSG00000196517	294	281	424	208	220	222
## ENSG00000171872	1	6	4	0	3	1
## ENSG00000178028	230	261	334	268	305	296
## ENSG00000117419	514	576	695	603	650	730
## ENSG00000187147	341	387	485	457	522	644
## ENSG00000126106	35	34	51	44	36	67
## ENSG00000198520	2	0	3	1	5	5
## ENSG00000142945	392	515	625	62	87	72
## ENSG00000142937	7166	8337	10197	6557	7437	8243
## ENSG00000142959	1	0	2	1	0	1
## ENSG00000173846	399	473	585	767	780	960
## ENSG00000188396	4	7	8	24	20	19
## ENSG00000222009	125	142	145	291	294	331
## ENSG00000117425	13	13	17	49	64	68
## ENSG00000070785	577	634	840	580	700	813
## ENSG00000126107	770	870	1227	594	686	776
## ENSG00000126088	772	869	1165	1111	1175	1311
## ENSG00000162415	5	6	4	34	41	46
## ENSG00000186603	6	9	10	1	12	5
## ENSG00000132781	55	51	61	59	42	82
## ENSG00000132773	83	121	124	96	122	127
## ENSG00000070759	17	31	29	88	89	111
## ENSG00000280670	13	13	18	9	14	15
## ENSG00000132763	84	107	136	54	59	79
## ENSG00000117450	3644	4021	4953	4900	5579	6560
## ENSG00000117448	635	733	926	695	778	905
## ENSG00000132780	797	995	1236	762	898	1071
## ENSG00000159588	0	1	3	6	5	5
## ENSG00000159592	772	860	1150	665	766	919
## ENSG00000159596	188	223	269	308	351	370
## ENSG00000197429	213	213	310	184	213	208
## ENSG00000086015	954	1066	1382	668	797	882
## ENSG00000117461	357	413	531	212	259	285
## ENSG00000278139	0	0	0	0	0	0
## ENSG00000117472	3	4	7	2	3	1
## ENSG00000250719	0	0	0	0	0	0
## ENSG00000085998	974	1064	1376	1241	1364	1623
## ENSG00000171357	6	8	12	1	3	8
## ENSG00000085999	60	84	110	16	12	10
## ENSG00000132128	1694	1918	2532	1908	2211	2513
## ENSG00000173660	1257	1315	1652	1338	1443	1652
## ENSG00000117481	218	211	282	299	350	421
## ENSG00000117480	2	4	1	0	0	3
## ENSG00000197587	0	0	0	0	0	0
## ENSG00000162456	0	0	0	0	0	0
## ENSG00000079277	226	266	317	299	358	361
## ENSG00000142961	151	136	156	126	147	192
## ENSG00000123472	465	567	713	513	531	607
## ENSG00000186118	1	0	1	0	1	0
## ENSG00000159658	1557	1824	2196	1220	1427	1598
## ENSG00000142973	0	0	0	0	0	0
## ENSG00000187048	0	0	0	0	0	0

## ENSG00000186377	0	0	0	0	0	0
## ENSG00000186160	0	0	0	0	0	0
## ENSG00000162365	0	0	0	0	0	0
## ENSG00000162366	0	0	0	0	0	0
## ENSG00000162367	0	0	0	0	0	0
## ENSG00000123473	200	259	362	69	86	93
## ENSG00000162368	2465	2795	3529	2612	3333	3481
## ENSG00000186790	0	2	0	0	2	1
## ENSG00000186564	9	13	21	8	15	15
## ENSG00000269113	0	0	0	2	1	1
## ENSG00000279096	0	0	0	0	0	0
## ENSG00000117834	0	0	0	3	2	0
## ENSG00000132122	30	47	72	98	99	131
## ENSG00000186094	0	0	0	0	0	0
## ENSG00000162373	7	4	5	5	6	2
## ENSG00000162374	0	0	0	0	0	0
## ENSG00000142700	0	0	0	0	0	1
## ENSG00000185104	521	656	784	461	599	696
## ENSG00000123080	158	202	310	26	41	43
## ENSG00000204006	0	0	0	0	0	0
## ENSG00000123091	1856	2230	2720	2845	3286	3802
## ENSG00000085831	9	11	15	14	9	11
## ENSG00000085832	779	897	1136	215	251	277
## ENSG00000117859	770	790	1013	741	898	908
## ENSG00000078618	2896	3371	4239	3384	3934	4550
## ENSG00000169213	6441	7800	9016	6806	7722	8664
## ENSG00000117862	785	892	1057	1002	1151	1366
## ENSG00000198841	156	158	222	215	258	296
## ENSG00000134717	574	723	820	675	751	865
## ENSG00000157077	674	729	1011	718	788	900
## ENSG00000154222	550	657	804	603	582	791
## ENSG00000085840	78	97	134	18	23	18
## ENSG00000134748	483	452	556	575	578	660
## ENSG00000134744	370	472	565	465	573	585
## ENSG00000116157	24	42	44	25	44	35
## ENSG00000182183	0	0	0	0	0	0
## ENSG00000162377	341	408	491	161	147	191
## ENSG00000162378	811	1008	1225	907	1009	1238
## ENSG00000203995	9	16	24	3	9	3
## ENSG00000121310	71	88	106	75	104	89
## ENSG00000116171	1262	1498	1724	1645	1896	2025
## ENSG00000279054	0	0	0	0	0	0
## ENSG00000174348	162	138	191	208	243	237
## ENSG00000162383	2	8	9	8	9	20
## ENSG00000157184	128	123	172	89	106	115
## ENSG00000162384	226	295	323	207	251	278
## ENSG00000162385	221	253	299	223	228	270
## ENSG00000157193	194	243	286	183	164	240
## ENSG00000143006	0	0	0	0	0	0
## ENSG00000174332	44	40	63	48	71	68
## ENSG00000058804	493	698	839	201	238	277
## ENSG00000058799	290	326	360	415	452	517
## ENSG00000211452	2	0	0	1	0	1
## ENSG00000081870	141	174	200	190	241	260



## ENSG00000116212	446	552	672	411	489	506
## ENSG00000203985	0	0	0	0	0	0
## ENSG00000116209	1999	2331	2808	4074	4518	5330
## ENSG00000116205	167	181	189	153	178	188
## ENSG00000157211	0	0	0	0	0	0
## ENSG00000256407	0	0	0	0	0	0
## ENSG00000215883	30	32	31	13	14	28
## ENSG00000116221	1059	1290	1567	960	1094	1230
## ENSG00000157216	716	880	992	893	999	1224
## ENSG00000162390	30	27	41	18	15	20
## ENSG00000162391	1	1	4	1	1	3
## ENSG00000184313	0	0	0	0	0	0
## ENSG00000271723	0	0	0	0	0	0
## ENSG00000243725	28	28	45	21	14	24
## ENSG00000162396	50	40	66	37	34	43
## ENSG00000006555	0	0	0	0	0	0
## ENSG00000162398	0	0	0	0	0	0
## ENSG00000116133	2908	3326	4281	1785	1891	2223
## ENSG00000143001	0	0	0	0	0	0
## ENSG00000162399	0	0	0	0	0	0
## ENSG00000169174	7	8	11	19	10	15
## ENSG00000162402	1318	1374	1625	1184	1327	1491
## ENSG00000162407	867	936	1332	362	467	503
## ENSG00000162409	65	67	86	34	56	67
## ENSG00000187889	0	1	0	2	0	0
## ENSG00000157131	0	0	0	0	0	0
## ENSG00000021852	0	0	0	0	0	0
## ENSG00000173406	55	61	72	91	142	118
## ENSG00000162600	66	57	73	71	84	79
## ENSG00000184292	1	0	1	1	1	5
## ENSG00000162601	403	475	538	602	725	711
## ENSG00000177606	2367	2227	3006	1869	2448	2491
## ENSG00000172456	68	67	86	59	91	97
## ENSG00000134709	0	0	0	1	0	0
## ENSG00000134716	0	0	1	2	1	1
## ENSG00000162598	0	0	0	0	0	0
## ENSG00000162599	50	39	52	15	11	12
## ENSG00000162604	234	284	313	360	413	483
## ENSG00000132849	58	68	84	35	41	33
## ENSG00000240563	0	0	0	0	0	0
## ENSG00000132854	0	0	0	0	0	0
## ENSG00000162607	345	552	630	199	284	274
## ENSG00000116641	2106	2364	2918	2090	2440	2727
## ENSG00000132855	0	1	0	0	1	4
## ENSG00000125703	98	128	157	101	139	138
## ENSG00000187140	0	0	0	0	0	0
## ENSG00000088035	102	123	124	169	176	209
## ENSG00000142856	55	80	93	25	33	32
## ENSG00000203965	38	21	25	29	31	49
## ENSG00000079739	658	767	916	498	596	582
## ENSG00000185483	331	367	447	124	167	149
## ENSG00000177414	0	1	0	0	0	0
## ENSG00000158966	141	139	168	165	144	211
## ENSG00000162437	114	128	161	86	85	117

## ENSG00000162434	3590	4104	5263	4793	5421	6501
## ENSG00000162433	96	104	130	28	37	29
## ENSG00000116675	8	7	9	7	11	9
## ENSG00000213625	1257	1459	1811	2108	2355	2840
## ENSG00000116678	111	145	204	147	177	196
## ENSG00000184588	115	141	194	266	298	445
## ENSG00000118473	637	734	910	1532	1729	1875
## ENSG00000152760	0	3	2	7	3	3
## ENSG00000172410	0	0	0	0	0	0
## ENSG00000152763	30	27	21	56	78	48
## ENSG00000198160	475	532	651	881	942	1230
## ENSG00000116704	516	617	732	469	530	600
## ENSG00000203963	0	0	0	0	0	0
## ENSG00000162594	0	0	0	0	0	0
## ENSG00000081985	0	0	0	1	0	1
## ENSG00000142864	4354	5175	6302	4212	4720	5344
## ENSG00000116717	762	889	1118	665	768	855
## ENSG00000172380	4724	5756	7096	3518	4216	4740
## ENSG00000162595	63	87	111	48	67	68
## ENSG00000116729	5309	6143	7729	20702	20025	28293
## ENSG00000116745	4	2	7	11	8	15
## ENSG00000024526	468	528	682	65	95	105
## ENSG00000033122	5	13	15	8	11	10
## ENSG00000066557	282	316	364	348	364	421
## ENSG00000116754	1607	1717	2370	1966	2396	2620
## ENSG00000118454	475	519	624	573	674	814
## ENSG00000197568	76	113	123	95	102	143
## ENSG00000279230	0	0	0	0	0	0
## ENSG00000116761	71	62	89	55	69	71
## ENSG00000050628	0	0	1	0	2	0
## ENSG00000132485	919	1106	1425	951	1115	1252
## ENSG00000172260	706	777	984	489	615	657
## ENSG00000162620	34	14	32	22	25	19
## ENSG00000254685	176	176	233	120	171	183
## ENSG00000259030	2	4	8	2	4	2
## ENSG00000116783	1	0	0	0	0	0
## ENSG00000162621	0	0	0	0	0	0
## ENSG00000178965	0	0	0	0	0	0
## ENSG00000116791	519	657	761	438	498	586
## ENSG00000162623	356	461	523	504	540	699
## ENSG00000162624	0	0	0	0	0	0
## ENSG00000137968	2	1	1	2	1	4
## ENSG00000117054	354	473	493	312	420	438
## ENSG00000137955	591	683	802	689	793	943
## ENSG00000057468	1	0	0	1	3	0
## ENSG00000154007	0	0	0	0	0	0
## ENSG00000184005	26	22	35	19	29	42
## ENSG00000117069	39	28	46	3	13	11
## ENSG00000142892	554	679	782	572	667	769
## ENSG00000154027	933	1166	1395	1396	1596	1780
## ENSG00000036549	664	686	959	887	907	1090
## ENSG00000077254	731	814	1010	1241	1366	1631
## ENSG00000180488	515	593	719	815	888	1030
## ENSG00000162614	1683	1869	2290	1723	2044	2212

## ENSG00000162613	1190	1436	1875	1156	1312	1484
## ENSG00000162616	1028	1330	1468	668	848	780
## ENSG00000137960	13	14	14	3	3	9
## ENSG00000122420	156	150	216	58	95	87
## ENSG00000137959	7	7	13	0	5	3
## ENSG00000137965	18	25	27	8	22	14
## ENSG00000162618	235	268	356	77	118	115
## ENSG00000117114	420	429	515	839	954	1121
## ENSG00000137941	368	497	537	574	614	777
## ENSG00000142875	603	731	909	822	993	1329
## ENSG00000203943	6	4	10	5	4	16
## ENSG00000137976	0	0	1	0	0	0
## ENSG00000117133	317	372	481	517	593	724
## ENSG00000174021	1224	1477	1838	1991	2071	2705
## ENSG00000117151	215	287	342	297	381	447
## ENSG00000117155	525	617	790	1328	1520	1888
## ENSG00000171517	8	13	18	122	130	198
## ENSG00000153898	10	5	7	5	7	10
## ENSG00000162643	39	52	52	106	121	114
## ENSG00000055732	0	1	1	4	1	5
## ENSG00000097096	78	95	119	45	81	73
## ENSG00000162642	247	319	333	334	402	464
## ENSG00000142867	403	459	612	624	703	757
## ENSG00000153904	3076	3727	4695	1521	2102	1808
## ENSG00000142871	7488	9466	12281	2358	3866	3289
## ENSG00000117174	548	647	803	663	807	882
## ENSG00000171502	84	109	117	161	172	236
## ENSG00000122417	304	317	405	424	471	527
## ENSG00000137975	3	4	6	59	69	73
## ENSG00000016490	0	0	0	0	0	0
## ENSG00000016602	0	0	0	0	0	0
## ENSG00000097033	1924	2282	2728	1857	2295	2451
## ENSG00000183291	1589	1910	2311	1645	2080	2234
## ENSG00000153936	633	782	942	841	917	1064
## ENSG00000267561	0	0	0	0	0	0
## ENSG00000143013	771	948	1097	508	640	689
## ENSG00000065243	861	947	1233	448	580	626
## ENSG00000137947	240	296	353	403	468	528
## ENSG00000137944	257	308	389	259	285	343
## ENSG00000213516	129	162	218	112	127	120
## ENSG00000117226	530	592	733	574	713	756
## ENSG00000117228	849	1084	1287	205	312	265
## ENSG00000162645	110	134	191	23	39	35
## ENSG00000213512	0	0	0	1	0	0
## ENSG00000162654	0	0	0	3	3	1
## ENSG00000154451	0	0	0	0	0	0
## ENSG00000183347	0	0	0	0	0	0
## ENSG00000197147	32	40	44	55	69	66
## ENSG00000171488	576	784	985	1801	1974	2640
## ENSG00000271949	0	0	0	0	0	0
## ENSG00000171492	491	562	708	384	417	543
## ENSG00000162664	395	411	505	414	470	621
## ENSG00000143032	0	0	0	0	0	0
## ENSG00000122482	507	539	710	817	891	1110

## ENSG00000162669	2	3	5	3	3	4
## ENSG00000097046	48	71	89	15	21	29
## ENSG00000069702	159	171	218	60	72	64
## ENSG00000137948	0	0	0	0	0	0
## ENSG00000172031	60	65	63	151	140	183
## ENSG00000230667	4	1	2	1	0	0
## ENSG00000189195	7	10	14	7	8	17
## ENSG00000069712	66	89	87	49	53	54
## ENSG00000203910	0	0	1	0	0	1
## ENSG00000174842	101	118	147	143	169	205
## ENSG00000122484	320	320	399	372	358	426
## ENSG00000162676	4	6	4	3	2	5
## ENSG00000067208	684	867	871	476	522	610
## ENSG00000122406	7376	8542	10277	7593	8538	9762
## ENSG00000154511	309	391	488	336	458	457
## ENSG00000143033	179	257	308	422	450	545
## ENSG00000117500	1196	1453	1856	1712	1927	2351
## ENSG00000122483	125	153	183	71	77	98
## ENSG00000117505	1229	1445	1735	1144	1277	1548
## ENSG00000137942	375	467	551	392	531	580
## ENSG00000137936	624	757	1058	587	671	848
## ENSG00000067334	647	777	1014	584	655	802
## ENSG00000023909	435	518	594	262	305	333
## ENSG00000198691	1	1	4	0	1	4
## ENSG00000137962	900	1125	1515	240	329	300
## ENSG00000117528	733	905	1167	918	1077	1269
## ENSG00000117525	4177	5048	6177	3609	4845	5876
## ENSG00000143036	13	12	25	25	29	33
## ENSG00000117519	5894	6939	8885	1259	1675	1596
## ENSG00000172339	99	138	160	104	114	120
## ENSG00000152078	56	52	72	74	61	91
## ENSG00000271092	4	3	10	3	4	5
## ENSG00000122481	34	24	34	30	27	43
## ENSG00000117569	122	125	167	235	269	274
## ENSG00000188641	288	297	357	202	236	207
## ENSG00000162627	431	470	585	303	397	438
## ENSG00000117598	3	5	1	0	0	0
## ENSG00000117600	138	135	184	75	95	65
## ENSG00000099260	3	6	2	3	2	2
## ENSG00000156869	49	58	91	27	35	34
## ENSG00000162688	294	354	392	312	450	460
## ENSG00000117620	309	466	496	273	348	330
## ENSG00000156875	545	680	875	1029	1149	1484
## ENSG00000156876	70	87	89	39	50	56
## ENSG00000122435	101	117	148	79	86	94
## ENSG00000122477	2	3	3	3	7	4
## ENSG00000137992	281	294	377	525	567	655
## ENSG00000137996	773	857	1056	863	941	1056
## ENSG00000079335	38	40	65	71	90	107
## ENSG00000181656	1	0	2	5	2	0
## ENSG00000162692	633	597	677	144	257	190
## ENSG00000162694	650	682	911	632	735	800
## ENSG00000162695	664	711	895	660	813	960
## ENSG00000117543	210	246	286	221	258	304

## ENSG00000170989	119	170	210	113	130	176
## ENSG00000118733	0	0	0	0	0	0
## ENSG00000060718	544	650	815	608	695	771
## ENSG00000185946	70	72	76	92	101	112
## ENSG00000240038	10	4	3	9	12	19
## ENSG00000243480	0	0	0	0	0	0
## ENSG00000237763	0	0	0	0	0	0
## ENSG00000174876	0	0	0	0	0	0
## ENSG00000187733	0	0	0	0	0	0
## ENSG00000198890	332	365	441	385	406	551
## ENSG00000162631	53	69	107	25	22	34
## ENSG00000134215	12	14	7	4	3	8
## ENSG00000085491	924	1041	1219	1231	1386	1647
## ENSG00000196427	0	0	0	0	0	0
## ENSG00000186086	0	0	0	0	0	0
## ENSG00000162636	129	164	202	321	284	399
## ENSG00000162639	8	10	15	7	12	15
## ENSG00000134186	571	681	810	781	830	968
## ENSG00000143107	1	1	1	2	1	0
## ENSG00000116266	537	519	660	617	721	824
## ENSG00000162641	1	1	1	3	5	2
## ENSG00000274068	0	0	0	0	0	0
## ENSG00000121957	195	247	278	78	92	75
## ENSG00000121940	352	408	511	365	362	444
## ENSG00000085433	417	483	599	844	882	1037
## ENSG00000197780	790	985	1108	1055	1192	1397
## ENSG00000215717	782	941	1205	1093	1281	1431
## ENSG00000179902	0	3	1	0	0	1
## ENSG00000116299	26	22	40	8	25	20
## ENSG00000031698	3440	3631	4618	2138	2597	2744
## ENSG00000143126	213	262	331	264	263	324
## ENSG00000134222	234	295	496	71	96	99
## ENSG00000221986	0	0	1	0	3	1
## ENSG00000134243	1672	1892	2312	1225	1527	1502
## ENSG00000143106	1222	1376	1765	1401	1504	1733
## ENSG00000143028	36	39	60	73	88	118
## ENSG00000162650	39	53	65	53	58	75
## ENSG00000174151	232	330	364	370	399	451
## ENSG00000181754	70	83	97	31	40	31
## ENSG00000156097	3	1	3	1	0	1
## ENSG00000065135	2123	2445	3004	1966	2374	2655
## ENSG00000134183	0	0	0	0	0	0
## ENSG00000116337	1296	1451	1946	1503	1727	2082
## ENSG00000168765	140	184	219	188	197	253
## ENSG00000213366	276	282	331	206	230	263
## ENSG00000134184	0	0	1	0	0	0
## ENSG00000134201	6	10	19	5	12	10
## ENSG00000134202	333	421	494	368	536	532
## ENSG00000198758	0	0	0	0	0	0
## ENSG00000184371	767	865	1080	809	885	974
## ENSG00000168710	2104	2301	2907	2428	2732	3048
## ENSG00000143093	544	695	830	686	749	816
## ENSG00000156150	0	0	0	0	0	0
## ENSG00000186150	0	0	0	0	0	0

## ENSG00000197106	31	48	56	45	48	55
## ENSG00000116396	99	121	155	112	127	120
## ENSG00000162775	123	158	187	175	211	231
## ENSG00000168679	290	319	354	278	346	383
## ENSG00000134248	471	534	668	784	884	999
## ENSG00000143125	0	0	1	0	1	0
## ENSG00000143105	0	0	0	0	0	0
## ENSG00000177301	0	2	4	1	1	1
## ENSG00000177272	10	10	11	6	3	1
## ENSG00000143119	0	0	0	0	0	0
## ENSG00000121931	170	195	235	183	206	243
## ENSG00000156171	236	255	316	308	352	441
## ENSG00000134255	194	207	287	205	248	277
## ENSG00000162777	8	13	8	6	2	2
## ENSG00000064886	7	4	3	6	9	8
## ENSG00000134216	0	0	0	0	0	0
## ENSG00000173947	0	0	0	5	3	6
## ENSG00000085465	9	5	12	21	22	25
## ENSG00000116455	377	414	612	325	345	421
## ENSG00000116459	1542	1849	2197	1784	2019	2231
## ENSG00000143110	1	2	0	1	2	2
## ENSG00000121933	0	0	1	0	1	1
## ENSG00000282608	0	0	0	0	0	0
## ENSG00000116473	868	1076	1282	1096	1271	1511
## ENSG00000197852	217	226	278	326	330	373
## ENSG00000064703	272	317	351	352	401	459
## ENSG00000171385	8	8	8	3	2	2
## ENSG00000143079	1098	1236	1582	637	697	715
## ENSG00000134245	14	17	13	14	17	18
## ENSG00000007341	95	123	138	143	157	189
## ENSG00000116489	3024	3625	4475	3194	3707	4145
## ENSG00000155363	700	790	1027	248	258	294
## ENSG00000155366	2987	3230	4254	2577	2930	3234
## ENSG00000271810	0	0	0	0	0	0
## ENSG00000155367	7	10	11	2	4	4
## ENSG00000184599	4	9	11	2	2	1
## ENSG00000155380	1263	1397	1744	1319	1488	1711
## ENSG00000198799	204	188	207	213	236	254
## ENSG00000081026	181	235	302	134	176	199
## ENSG00000116793	357	377	518	708	710	984
## ENSG00000081019	199	195	255	310	351	397
## ENSG00000134242	0	2	3	2	1	3
## ENSG00000188761	0	2	0	3	1	0
## ENSG00000134262	115	124	161	99	113	131
## ENSG00000118655	113	181	207	77	105	124
## ENSG00000163349	837	960	1141	1161	1278	1467
## ENSG00000116774	740	832	1069	833	886	1002
## ENSG00000134207	0	0	0	0	0	0
## ENSG00000197323	533	643	722	814	815	1052
## ENSG00000116752	345	406	459	303	335	348
## ENSG00000175984	41	41	55	21	25	30
## ENSG00000116748	0	0	0	0	0	0
## ENSG00000213281	1758	2022	2538	2029	2383	2703
## ENSG00000009307	9653	11196	14169	11104	12496	14386

## ENSG00000052723	524	595	702	783	818	996
## ENSG00000198765	0	0	0	0	0	0
## ENSG00000134200	0	0	0	0	0	0
## ENSG00000134198	20	17	13	20	23	28
## ENSG00000134259	34	36	47	9	12	15
## ENSG00000173218	394	453	595	203	214	243
## ENSG00000118729	0	0	0	0	0	0
## ENSG00000177551	0	0	0	1	0	1
## ENSG00000163393	1	2	1	4	2	5
## ENSG00000173212	0	0	0	0	0	0
## ENSG00000163399	4004	4452	5810	6019	6378	7838
## ENSG00000116815	39	41	60	33	31	33
## ENSG00000143061	1	1	0	0	0	2
## ENSG00000116824	0	0	0	0	0	0
## ENSG00000134247	22	31	31	114	108	127
## ENSG00000134256	0	0	0	0	1	0
## ENSG00000116830	270	278	366	126	161	170
## ENSG00000134253	44	36	42	21	35	26
## ENSG00000134258	0	0	0	0	0	0
## ENSG00000198162	1516	1777	2156	2212	2722	3068
## ENSG00000183508	360	375	410	3628	3657	4631
## ENSG00000196505	257	300	355	528	546	687
## ENSG00000065183	611	741	881	774	906	995
## ENSG00000155761	1	2	0	1	1	4
## ENSG00000092607	0	0	0	0	0	0
## ENSG00000116874	119	127	179	116	141	198
## ENSG00000116882	0	0	0	0	0	0
## ENSG00000203859	0	0	0	0	0	0
## ENSG00000203857	0	0	0	0	0	0
## ENSG00000143067	498	546	710	1259	1445	1773
## ENSG00000092621	1851	1839	2413	399	528	434
## ENSG00000134240	0	0	0	0	0	0
## ENSG00000134193	0	0	0	0	0	0
## ENSG00000134249	0	0	0	0	0	0
## ENSG00000134250	4625	5396	6373	2080	2434	2699
## ENSG00000265808	2150	2446	2994	2431	2770	3158
## ENSG00000278882	19	15	25	8	14	18
## ENSG00000273136	65	109	103	52	69	87
## ENSG00000263353	0	0	1	1	0	0
## ENSG00000281741	2	2	1	0	0	0
## ENSG00000198019	0	0	0	0	0	0
## ENSG00000188610	24	29	24	3	6	10
## ENSG00000171943	123	137	172	94	116	124
## ENSG00000203818	0	0	0	0	0	0
## ENSG00000263513	8	9	12	3	1	1
## ENSG00000271567	1	0	0	0	0	0
## ENSG00000266338	402	447	570	582	621	792
## ENSG00000279782	0	0	0	0	0	0
## ENSG00000196369	85	73	86	72	71	83
## ENSG00000215784	6	14	7	0	3	5
## ENSG00000281571	1	3	3	3	2	2
## ENSG00000256374	0	0	0	0	0	0
## ENSG00000162825	50	60	43	50	82	70
## ENSG00000117262	62	71	94	61	81	101

## ENSG00000174827	14	32	36	11	16	13
## ENSG00000117281	7	15	8	6	11	19
## ENSG00000265491	1132	1316	1561	1363	1645	1700
## ENSG00000186141	578	663	875	609	715	788
## ENSG00000186364	17	8	10	10	8	10
## ENSG00000131788	703	789	1012	1011	1008	1181
## ENSG00000198483	51	64	66	28	32	37
## ENSG00000143127	37	57	72	86	94	112
## ENSG00000131779	310	351	440	427	498	523
## ENSG00000265241	646	732	915	837	892	1201
## ENSG00000280778	0	0	0	0	0	0
## ENSG00000271601	534	680	796	1024	1144	1437
## ENSG00000272031	99	99	120	66	67	61
## ENSG00000121851	116	124	175	128	149	159
## ENSG00000265972	1358	1294	1634	1665	1933	2097
## ENSG00000168509	0	0	0	0	0	0
## ENSG00000271425	34	41	22	21	26	29
## ENSG00000213240	0	0	0	0	0	0
## ENSG00000264343	15	19	21	3	5	4
## ENSG00000270339	0	0	0	0	0	0
## ENSG00000268043	90	105	112	163	138	153
## ENSG00000131791	428	509	609	783	945	1039
## ENSG00000131781	18	17	23	11	20	23
## ENSG00000131778	622	734	883	462	592	637
## ENSG00000116128	418	456	566	414	511	534
## ENSG00000162836	97	120	133	99	105	124
## ENSG00000265107	1	0	0	0	0	0
## ENSG00000121634	0	0	0	0	0	0
## ENSG00000188092	22	22	40	33	39	35
## ENSG00000263956	69	85	107	94	103	147
## ENSG00000280649	4	4	9	6	8	8
## ENSG00000236334	0	0	0	0	0	0
## ENSG00000270629	87	107	108	74	65	93
## ENSG00000178104	1137	1217	1497	501	587	574
## ENSG00000269713	377	393	543	487	483	703
## ENSG00000271383	74	106	99	96	118	138
## ENSG00000263464	0	1	0	0	0	0
## ENSG00000272058	0	0	0	0	0	0
## ENSG00000150337	1	1	2	8	7	12
## ENSG00000203814	8	9	10	20	17	18
## ENSG00000183598	2	1	2	0	0	2
## ENSG00000270882	4	3	3	10	7	8
## ENSG00000203811	1	0	0	0	1	0
## ENSG00000203812	0	4	3	2	3	2
## ENSG00000184678	252	320	417	1098	1157	1332
## ENSG00000272196	1	0	0	3	2	2
## ENSG00000203852	0	1	0	0	0	0
## ENSG00000270276	0	2	0	1	1	0
## ENSG00000184260	1	5	1	2	0	1
## ENSG00000184270	0	0	1	4	3	3
## ENSG00000178096	59	44	57	56	47	60
## ENSG00000159164	568	632	741	785	805	997
## ENSG00000143368	936	1156	1484	1169	1270	1524
## ENSG00000014914	105	155	165	163	174	210



## ENSG00000264522	530	688	783	721	799	1003
## ENSG00000136631	409	487	591	508	597	610
## ENSG00000023902	950	1141	1351	1420	1666	2024
## ENSG00000143401	1087	1319	1617	696	872	965
## ENSG00000118298	1	4	2	2	5	5
## ENSG00000117362	1150	1253	1594	1915	2078	2455
## ENSG00000118292	125	122	162	268	337	347
## ENSG00000159208	46	50	77	64	69	75
## ENSG00000266472	383	499	606	628	616	787
## ENSG00000278939	0	1	0	0	0	1
## ENSG00000117360	493	539	680	547	588	671
## ENSG00000163125	575	670	873	667	777	886
## ENSG00000143374	187	247	320	281	268	387
## ENSG00000143369	1986	2285	3013	3049	3277	3922
## ENSG00000143382	143	129	222	208	214	253
## ENSG00000143384	3662	4265	5049	7916	8581	10862
## ENSG00000143420	968	1170	1458	1090	1172	1471
## ENSG00000143457	279	293	371	349	407	478
## ENSG00000143452	0	0	0	1	0	0
## ENSG00000163131	11	13	24	54	33	78
## ENSG00000143387	107	126	185	211	239	296
## ENSG00000143437	532	563	795	550	648	758
## ENSG00000143379	220	244	282	281	303	331
## ENSG00000143418	1452	1621	2024	1607	1766	2247
## ENSG00000143412	19	14	21	16	24	19
## ENSG00000143409	108	139	157	95	99	121
## ENSG00000143363	147	141	167	187	205	252
## ENSG00000163141	2	1	1	2	0	2
## ENSG00000143443	21	32	38	39	41	39
## ENSG00000197622	941	1023	1339	1963	2084	2637
## ENSG00000213190	920	1107	1346	2572	2740	3542
## ENSG00000143458	102	141	199	186	173	226
## ENSG00000143434	35	55	59	118	114	134
## ENSG00000163154	1	1	1	1	2	1
## ENSG00000163156	294	300	339	340	387	525
## ENSG00000163155	86	106	135	161	203	234
## ENSG00000163157	0	0	0	0	0	0
## ENSG00000163159	356	446	557	500	511	607
## ENSG00000143398	1228	1487	1771	1411	1589	1828
## ENSG00000159352	1434	1732	2150	1488	1696	2044
## ENSG00000143373	320	352	476	364	409	501
## ENSG00000143393	1470	1783	2242	1255	1411	1571
## ENSG00000143390	394	432	544	295	336	376
## ENSG00000143416	182	227	253	56	51	64
## ENSG00000159377	2142	2380	2878	2524	2621	3257
## ENSG00000143442	638	647	786	669	738	843
## ENSG00000143375	11	6	13	10	6	6
## ENSG00000143367	397	383	568	211	298	313
## ENSG00000143376	476	581	608	859	925	1048
## ENSG00000159409	0	0	0	1	0	0
## ENSG00000178796	0	0	0	0	0	0
## ENSG00000143436	300	341	454	184	208	238
## ENSG00000143450	5	5	6	7	7	8
## ENSG00000182134	13	24	37	21	7	12

## ENSG00000213171	0	0	0	0	0	0
## ENSG00000143365	0	0	0	0	0	0
## ENSG00000225556	1	3	0	2	4	5
## ENSG00000196407	2	6	6	4	5	6
## ENSG00000159445	105	167	161	111	160	155
## ENSG00000197747	2224	2653	3275	1199	1371	1553
## ENSG00000163191	4419	5021	6355	4896	5433	6238
## ENSG00000182898	0	0	0	0	0	0
## ENSG00000159450	1	2	0	2	2	0
## ENSG00000215853	0	0	0	0	0	0
## ENSG00000197915	0	1	1	2	0	2
## ENSG00000143631	11	8	20	19	25	20
## ENSG00000143520	0	1	0	0	0	0
## ENSG00000143536	0	0	0	0	0	0
## ENSG00000186207	0	0	0	0	0	0
## ENSG00000244057	0	0	0	0	0	0
## ENSG00000279850	0	0	0	0	0	0
## ENSG00000169509	0	0	0	0	0	0
## ENSG00000185966	0	0	0	0	0	0
## ENSG00000163202	0	0	0	0	0	0
## ENSG00000187238	0	0	0	0	0	0
## ENSG00000185962	0	0	0	0	0	0
## ENSG00000187223	0	0	0	0	0	0
## ENSG00000187180	1	0	0	0	1	0
## ENSG00000159455	0	1	0	0	0	0
## ENSG00000187173	8	5	9	8	3	12
## ENSG00000187170	0	0	1	0	1	0
## ENSG00000198854	0	0	0	0	0	0
## ENSG00000196734	0	0	0	0	0	0
## ENSG00000203786	0	0	0	0	0	1
## ENSG00000240386	0	0	0	0	0	1
## ENSG00000186226	0	0	0	0	0	0
## ENSG00000172155	0	0	0	0	0	0
## ENSG00000197084	0	0	0	0	0	0
## ENSG00000186844	0	0	0	0	0	0
## ENSG00000235942	0	0	0	0	0	0
## ENSG00000163206	0	0	0	0	0	0
## ENSG00000163207	0	0	0	0	0	0
## ENSG00000184148	0	0	0	0	0	0
## ENSG00000169474	0	0	0	0	0	0
## ENSG00000163209	0	0	0	0	0	0
## ENSG00000169469	0	0	0	0	0	0
## ENSG00000163216	0	0	0	0	0	0
## ENSG00000241794	0	0	0	0	0	0
## ENSG00000196805	0	0	0	0	0	0
## ENSG00000203785	0	0	0	0	0	0
## ENSG00000244094	0	0	0	0	0	0
## ENSG00000159516	0	0	0	0	0	0
## ENSG00000203784	0	0	0	0	0	0
## ENSG00000203783	0	0	0	0	0	0
## ENSG00000203782	0	0	0	0	0	0
## ENSG00000159527	0	0	0	0	0	0
## ENSG00000163218	0	0	0	0	0	0
## ENSG00000163220	0	0	0	0	0	0

## ENSG00000163221	0	0	0	0	0	0
## ENSG00000143546	0	0	0	0	0	0
## ENSG00000184330	0	0	0	0	0	0
## ENSG00000197364	0	0	0	0	0	0
## ENSG00000143556	0	0	0	0	0	0
## ENSG00000197956	8230	9604	11456	5798	6474	7566
## ENSG00000196420	6	0	1	1	0	0
## ENSG00000196154	56	65	81	35	31	50
## ENSG00000188015	12	16	15	11	6	16
## ENSG00000196754	41	37	46	19	18	31
## ENSG00000188643	3313	4056	5170	3305	3708	4306
## ENSG00000189334	0	1	1	1	0	3
## ENSG00000189171	640	673	891	863	869	1080
## ENSG00000160678	4	2	3	3	5	7
## ENSG00000160679	603	625	816	605	755	824
## ENSG00000143553	259	345	375	346	352	428
## ENSG00000143621	2348	2713	3415	2230	2658	2967
## ENSG00000169418	0	0	1	0	0	0
## ENSG00000143624	619	721	961	596	684	817
## ENSG00000279767	0	0	0	0	0	0
## ENSG00000143554	50	55	63	80	95	108
## ENSG00000143614	374	393	537	367	392	418
## ENSG00000198837	455	547	620	480	548	629
## ENSG00000160741	343	426	556	601	691	822
## ENSG00000143570	1245	1449	1834	2021	2027	2538
## ENSG00000143578	32	25	50	25	32	47
## ENSG00000143543	1079	1300	1494	1272	1529	1729
## ENSG00000143545	2142	2410	2897	3243	3499	4061
## ENSG00000177954	3343	4015	4829	3989	4497	5250
## ENSG00000143552	4	0	2	1	0	4
## ENSG00000143549	7910	9119	11797	5054	5934	6268
## ENSG00000163263	0	0	0	0	0	0
## ENSG00000143612	1699	2001	2486	1757	1876	2398
## ENSG00000143569	2801	3176	4062	3916	4143	4864
## ENSG00000143575	813	918	1137	779	817	960
## ENSG00000143595	0	0	0	0	1	0
## ENSG00000143515	2157	2554	3176	1327	1459	1676
## ENSG00000160712	106	108	171	112	109	148
## ENSG00000169291	0	0	0	0	0	2
## ENSG00000163239	0	0	0	1	0	0
## ENSG00000160714	899	1049	1263	1687	1763	2234
## ENSG00000160716	0	2	0	3	3	4
## ENSG00000160710	3691	4173	5225	4447	5252	6052
## ENSG00000143603	1	0	0	0	0	1
## ENSG00000163344	245	278	330	156	209	200
## ENSG00000163346	1060	1199	1440	4498	4514	5580
## ENSG00000163348	357	331	459	475	498	623
## ENSG00000160691	6035	7038	8967	9616	10651	12726
## ENSG00000173207	289	312	379	49	74	68
## ENSG00000160688	320	320	495	544	536	675
## ENSG00000163352	0	0	0	2	0	0
## ENSG00000160685	419	449	600	281	304	383
## ENSG00000163354	0	0	0	1	1	4
## ENSG00000163357	1	0	0	1	0	0

## ENSG00000143537	897	1033	1324	1192	1276	1493
## ENSG00000243364	69	61	86	117	128	154
## ENSG00000251246	0	0	0	0	0	0
## ENSG00000143590	2	1	6	3	2	4
## ENSG00000169242	0	1	4	1	2	6
## ENSG00000169241	195	193	213	146	157	180
## ENSG00000179085	76	108	131	137	134	181
## ENSG00000163463	25	13	28	27	24	31
## ENSG00000273088	0	0	0	0	0	0
## ENSG00000163462	97	93	139	145	122	152
## ENSG00000185499	29	28	56	25	36	44
## ENSG00000279986	0	0	0	0	0	0
## ENSG00000279487	0	0	0	1	0	1
## ENSG00000169231	186	184	227	226	258	303
## ENSG00000173171	163	147	209	202	243	216
## ENSG00000177628	661	737	979	1242	1278	1587
## ENSG00000160767	796	884	1240	1093	1203	1451
## ENSG00000116521	1064	1143	1599	1878	1925	2330
## ENSG00000176444	161	189	234	250	247	359
## ENSG00000143630	19	24	31	50	62	78
## ENSG00000143627	0	0	0	0	0	0
## ENSG00000160752	650	733	941	902	959	1192
## ENSG00000160753	386	451	676	630	624	784
## ENSG00000116539	1264	1445	1729	1445	1651	1788
## ENSG00000125459	189	210	316	112	129	158
## ENSG00000163374	440	440	551	368	439	517
## ENSG00000132676	1135	1346	1620	1258	1391	1528
## ENSG00000116580	659	733	895	795	912	1006
## ENSG00000132718	1195	1252	1709	1436	1453	1952
## ENSG00000143622	462	583	715	951	1113	1338
## ENSG00000132680	304	351	398	448	438	492
## ENSG00000173080	0	0	0	0	1	0
## ENSG00000116584	1959	1931	2463	1404	1570	1728
## ENSG00000163479	3288	3723	4690	4048	4573	5353
## ENSG00000160803	663	717	939	852	931	1092
## ENSG00000116586	271	311	374	431	425	525
## ENSG00000132698	0	0	0	0	0	1
## ENSG00000254726	413	429	510	1405	1390	1931
## ENSG00000160789	11483	12945	16913	8451	9536	10726
## ENSG00000196189	4	3	3	2	5	1
## ENSG00000160785	472	594	720	486	598	699
## ENSG00000260238	0	0	0	0	0	1
## ENSG00000160783	75	104	121	85	91	113
## ENSG00000242252	0	1	0	0	0	0
## ENSG00000160781	6	5	6	9	10	13
## ENSG00000198952	2156	2380	3170	2038	2164	2654
## ENSG00000163472	39	37	49	54	52	51
## ENSG00000198715	400	464	564	755	768	972
## ENSG00000189030	0	1	0	0	0	0
## ENSG00000163468	4265	4574	6284	4444	4896	5900
## ENSG00000163467	5	2	1	1	2	2
## ENSG00000132677	0	0	0	0	0	0
## ENSG00000125462	0	0	0	0	0	1
## ENSG00000116604	838	1018	1260	1814	2030	2499

## ENSG00000183856	413	518	709	71	93	96
## ENSG00000187862	0	0	0	0	0	0
## ENSG00000163382	361	377	510	391	417	520
## ENSG00000160818	389	448	551	343	351	448
## ENSG00000280316	2	0	0	1	0	0
## ENSG00000132702	0	0	0	0	1	1
## ENSG00000132692	0	2	3	4	2	0
## ENSG00000132688	5756	6945	8477	4438	4923	5564
## ENSG00000143320	94	122	125	60	69	67
## ENSG00000143319	480	509	629	431	527	596
## ENSG00000143303	91	72	126	125	123	183
## ENSG00000143314	407	466	578	296	383	410
## ENSG00000143321	2872	3481	4315	3395	3675	4446
## ENSG00000143294	751	848	1089	828	922	1159
## ENSG00000027869	1	0	0	2	0	0
## ENSG00000198400	0	0	0	0	0	1
## ENSG00000027644	0	0	0	0	0	0
## ENSG00000187800	677	710	1068	351	431	426
## ENSG00000160838	1	0	2	0	1	0
## ENSG00000132694	729	841	1064	696	787	992
## ENSG00000253831	0	1	0	0	0	0
## ENSG00000117036	313	345	417	530	593	651
## ENSG00000143297	0	0	0	0	0	0
## ENSG00000163518	0	0	0	0	0	0
## ENSG00000160856	0	0	0	0	0	0
## ENSG00000132704	0	0	0	0	0	0
## ENSG00000163534	0	0	0	0	0	0
## ENSG00000073754	0	0	0	0	0	0
## ENSG00000183853	3688	4352	5337	6069	6766	7819
## ENSG00000158473	0	0	0	7	6	12
## ENSG00000158477	0	0	0	0	0	0
## ENSG00000158481	0	0	0	0	0	0
## ENSG00000158485	0	0	0	0	0	0
## ENSG00000158488	0	0	0	0	0	0
## ENSG00000186306	0	0	0	0	0	0
## ENSG00000180708	0	0	0	0	0	0
## ENSG00000173285	0	0	0	0	0	0
## ENSG00000198965	0	0	0	0	0	0
## ENSG00000197532	0	0	0	0	0	0
## ENSG00000186440	0	0	0	0	0	0
## ENSG00000186400	0	0	0	0	0	0
## ENSG00000198967	0	0	0	0	0	0
## ENSG00000163554	0	0	0	0	0	0
## ENSG00000196171	0	0	0	0	0	0
## ENSG00000203757	0	0	0	0	0	0
## ENSG00000180433	0	0	0	0	0	0
## ENSG00000197403	0	0	0	0	0	0
## ENSG00000188340	0	0	0	0	0	0
## ENSG00000163563	0	0	0	0	0	0
## ENSG00000163564	0	0	0	1	2	0
## ENSG00000163565	905	1005	1218	878	989	1121
## ENSG00000163568	0	0	1	0	0	0
## ENSG00000162706	0	0	0	0	0	0
## ENSG00000213088	0	0	0	0	0	0

## ENSG00000179639	0	0	0	0	0	0
## ENSG00000196266	0	0	0	0	0	0
## ENSG00000196184	0	0	0	0	0	0
## ENSG00000184155	0	0	0	0	0	0
## ENSG00000132703	0	0	0	0	0	0
## ENSG00000132693	0	0	0	0	0	0
## ENSG00000158716	39	52	59	60	62	70
## ENSG00000181036	0	0	0	0	0	0
## ENSG00000158714	1	1	0	0	0	3
## ENSG00000188004	4	1	0	4	1	2
## ENSG00000243284	4	1	1	1	2	1
## ENSG00000256029	0	0	0	0	0	0
## ENSG00000213085	12	15	22	5	12	3
## ENSG00000158710	5266	6078	7876	2988	3380	3990
## ENSG00000085552	0	0	1	0	0	0
## ENSG00000162723	0	0	0	2	0	0
## ENSG00000143315	197	241	263	185	198	235
## ENSG00000177807	0	0	0	0	0	1
## ENSG00000162728	0	0	0	0	0	0
## ENSG00000162729	327	366	442	698	696	921
## ENSG00000018625	0	0	0	0	0	0
## ENSG00000132681	0	0	0	0	0	0
## ENSG00000143318	0	2	1	3	1	0
## ENSG00000162734	6851	7776	9981	4920	5825	6181
## ENSG00000132716	422	478	571	544	674	745
## ENSG00000258465	0	1	1	1	1	0
## ENSG00000162735	559	715	834	683	798	868
## ENSG00000122218	6515	7344	9227	5422	6305	6868
## ENSG00000162736	2246	2522	3353	3487	3917	4518
## ENSG00000171786	0	1	0	1	2	4
## ENSG00000162738	83	112	123	176	231	269
## ENSG00000162739	0	0	0	0	0	0
## ENSG00000066294	0	0	0	0	0	0
## ENSG00000117090	0	0	0	0	0	0
## ENSG00000117091	0	0	0	0	0	0
## ENSG00000026751	0	0	0	0	0	0
## ENSG00000122224	0	0	0	0	0	0
## ENSG00000122223	0	0	0	0	0	0
## ENSG00000179914	0	0	0	0	0	0
## ENSG00000158764	0	0	0	0	0	0
## ENSG00000158769	16	5	17	16	20	21
## ENSG00000270149	0	0	0	0	0	0
## ENSG00000215845	1	0	1	2	1	0
## ENSG00000158773	303	342	437	488	564	684
## ENSG00000186517	1	6	2	3	4	8
## ENSG00000278883	0	0	0	0	0	0
## ENSG00000143217	1	0	1	7	3	2
## ENSG00000162755	1	6	5	5	2	7
## ENSG00000143256	602	792	871	754	839	946
## ENSG00000158793	160	189	243	172	193	239
## ENSG00000158796	317	314	440	288	282	355
## ENSG00000143222	644	718	867	951	996	1197
## ENSG00000143258	181	167	235	105	109	143
## ENSG00000143224	79	83	114	121	110	130

## ENSG00000158850	442	475	641	742	756	963
## ENSG00000158859	24	22	50	23	21	26
## ENSG00000158864	934	1095	1396	1215	1283	1498
## ENSG00000158869	2	1	3	4	7	2
## ENSG00000158874	0	0	0	0	0	0
## ENSG00000158882	160	171	215	139	164	177
## ENSG00000143257	2	4	5	5	3	5
## ENSG00000248485	1	0	0	0	0	2
## ENSG00000158887	10	8	9	19	23	27
## ENSG00000143252	1019	1143	1377	1272	1489	1651
## ENSG00000188931	0	0	0	0	0	0
## ENSG00000143226	0	1	1	1	3	4
## ENSG00000173110	2	5	4	7	1	6
## ENSG00000203747	0	0	0	0	0	0
## ENSG00000072694	0	0	0	0	0	0
## ENSG00000162747	0	0	0	0	0	0
## ENSG00000132185	10	15	14	5	12	12
## ENSG00000162746	18	35	37	24	27	45
## ENSG00000081721	199	228	284	192	211	240
## ENSG00000118217	1079	1190	1528	635	759	869
## ENSG00000162745	30	36	45	56	77	52
## ENSG00000198929	1	4	4	23	19	18
## ENSG00000254706	0	0	0	0	0	0
## ENSG00000239887	6	3	10	57	47	36
## ENSG00000171722	0	0	0	0	1	1
## ENSG00000198574	0	1	1	1	0	0
## ENSG00000152332	3216	4141	4879	6167	7025	8358
## ENSG00000117143	1895	2350	2887	707	882	868
## ENSG00000162733	5327	5497	6811	3160	4023	3932
## ENSG00000132196	46	51	59	106	103	145
## ENSG00000185860	2	2	1	1	3	1
## ENSG00000117152	2487	3100	3998	4876	5852	6412
## ENSG00000143248	225	251	283	1045	1125	1344
## ENSG00000143228	168	215	286	30	37	40
## ENSG00000185630	479	545	612	418	574	504
## ENSG00000162761	0	0	0	0	0	0
## ENSG00000143171	0	0	0	0	0	0
## ENSG00000162763	0	0	0	0	0	0
## ENSG00000143198	671	728	947	867	904	1089
## ENSG00000143149	1215	1354	1659	506	589	643
## ENSG00000143183	1111	1334	1504	1493	1692	1894
## ENSG00000143179	656	810	999	661	936	940
## ENSG00000188859	0	2	1	3	1	2
## ENSG00000143157	768	848	998	467	533	588
## ENSG00000152382	63	102	119	50	70	84
## ENSG00000143195	2	3	4	0	2	3
## ENSG00000143194	0	0	0	1	0	0
## ENSG00000143167	0	0	0	0	0	0
## ENSG00000198842	0	0	0	0	0	0
## ENSG00000143190	85	108	108	145	144	152
## ENSG00000198821	0	0	0	0	0	0
## ENSG00000143162	175	186	194	336	340	425
## ENSG00000198771	0	0	0	0	1	0
## ENSG00000197965	2931	3435	4309	2041	2203	2472

## ENSG00000143199	6	3	10	4	3	2
## ENSG00000143158	581	689	868	692	853	906
## ENSG00000143164	1355	1601	1891	1199	1510	1639
## ENSG00000143147	381	470	593	595	766	893
## ENSG00000143155	631	718	879	566	622	717
## ENSG00000213064	342	470	564	269	323	333
## ENSG00000143178	3	11	13	19	10	12
## ENSG00000143185	0	0	0	0	0	0
## ENSG00000143184	0	0	0	0	0	0
## ENSG00000143196	0	0	0	0	0	0
## ENSG00000143153	401	478	659	250	358	380
## ENSG00000143156	172	205	253	229	258	335
## ENSG00000117475	418	537	607	333	382	472
## ENSG00000117477	3	2	8	1	3	0
## ENSG00000117479	97	114	153	332	299	431
## ENSG00000198734	0	0	0	0	0	1
## ENSG00000174175	0	0	0	0	0	0
## ENSG00000000460	70	94	107	34	35	42
## ENSG00000188404	0	0	0	0	0	0
## ENSG00000007908	0	0	0	0	0	0
## ENSG00000171806	35	50	58	42	35	50
## ENSG00000000457	92	97	130	61	50	75
## ENSG00000075945	288	302	393	421	504	537
## ENSG00000203740	0	0	0	0	0	0
## ENSG00000120370	162	173	214	143	173	189
## ENSG00000116132	1188	1538	1946	1238	1406	1675
## ENSG00000117501	0	0	0	0	0	0
## ENSG00000007933	2	3	0	2	3	2
## ENSG00000094963	3	1	2	0	0	0
## ENSG00000010932	0	1	3	0	0	1
## ENSG00000076258	3	4	3	1	2	5
## ENSG00000117523	3461	4193	4875	5461	5908	7062
## ENSG00000034971	0	0	0	0	0	0
## ENSG00000117533	189	229	267	335	446	477
## ENSG00000010165	426	462	596	616	634	764
## ENSG00000197959	4	9	9	15	14	33
## ENSG00000135845	156	173	258	209	233	257
## ENSG00000180999	0	1	0	0	0	0
## ENSG00000094975	1417	1560	2007	2425	2930	3359
## ENSG00000117560	0	1	0	2	1	1
## ENSG00000120337	24	35	31	128	205	146
## ENSG00000117586	1028	1239	1558	413	644	480
## ENSG00000117592	8731	10027	12050	9838	12086	11589
## ENSG00000162753	0	0	0	0	0	0
## ENSG00000183831	0	1	1	1	0	0
## ENSG00000076321	396	406	570	545	552	622
## ENSG00000120334	124	213	216	124	126	154
## ENSG00000117593	419	485	596	277	328	358
## ENSG00000185278	138	152	142	220	209	277
## ENSG00000117601	2	2	1	1	1	1
## ENSG00000135870	464	496	570	863	925	1103
## ENSG00000152061	321	356	449	244	321	324
## ENSG00000203737	0	0	0	1	0	0
## ENSG00000116161	810	929	1126	548	632	725



## ENSG00000120333	209	270	320	139	165	189
## ENSG00000120332	0	0	0	0	0	0
## ENSG00000235750	0	1	0	0	1	0
## ENSG00000116147	0	0	0	0	0	0
## ENSG00000143207	538	667	802	827	962	1099
## ENSG00000116183	30	19	26	5	5	4
## ENSG00000152092	3	1	2	6	2	5
## ENSG00000198797	0	0	0	2	3	0
## ENSG00000120341	1	3	4	0	1	0
## ENSG00000075391	488	549	665	501	535	592
## ENSG00000240021	0	0	0	0	0	0
## ENSG00000116191	862	1004	1247	711	772	996
## ENSG00000116194	0	0	1	2	1	1
## ENSG00000116199	1116	1254	1531	1094	1218	1422
## ENSG00000186283	303	331	455	213	258	277
## ENSG00000143322	1293	1587	1578	1458	1632	1856
## ENSG00000057252	959	1198	1446	1179	1380	1526
## ENSG00000162779	0	0	1	0	1	1
## ENSG00000116218	0	0	0	0	0	0
## ENSG00000162782	0	0	0	0	0	0
## ENSG00000143340	0	0	0	0	0	0
## ENSG00000169905	1277	1456	1736	1268	1405	1659
## ENSG00000143337	861	1058	1239	1109	1176	1379
## ENSG00000135837	751	733	951	925	1003	1200
## ENSG00000116260	20731	22742	29492	23379	26250	29715
## ENSG00000121454	14	16	15	18	18	37
## ENSG00000230124	402	473	597	445	501	537
## ENSG00000143324	843	948	1246	930	1129	1273
## ENSG00000135835	56	56	72	63	56	81
## ENSG00000135823	678	795	1000	1317	1474	1772
## ENSG00000153029	79	84	84	51	51	53
## ENSG00000162783	788	920	1181	829	821	915
## ENSG00000198216	0	0	0	1	0	0
## ENSG00000179930	0	0	0	0	0	0
## ENSG00000135821	1032	1088	1479	1223	1256	1578
## ENSG00000203730	0	0	0	0	0	0
## ENSG00000121446	0	0	0	0	0	0
## ENSG00000135828	93	132	160	137	149	191
## ENSG00000143333	1	2	4	13	8	8
## ENSG00000135824	0	0	0	0	0	0
## ENSG00000135838	5	3	5	7	9	10
## ENSG00000135829	2762	3052	4001	2645	3058	3556
## ENSG00000157060	0	0	1	0	0	0
## ENSG00000135862	16478	18713	23462	11124	12561	14180
## ENSG00000058085	235	279	392	269	306	331
## ENSG00000157064	27	32	44	33	20	38
## ENSG00000116698	1137	1305	1731	1118	1166	1525
## ENSG00000116701	19	40	35	13	19	27
## ENSG00000162704	3392	4035	5028	2373	2762	3157
## ENSG00000143344	325	380	474	885	934	1246
## ENSG00000173627	0	1	0	0	0	0
## ENSG00000198756	103	144	151	21	43	35
## ENSG00000198860	430	482	581	205	256	255
## ENSG00000116667	213	272	282	114	130	148

## ENSG00000116406	1345	1630	1904	1697	1893	2298
## ENSG00000135842	768	893	1097	232	313	253
## ENSG00000121481	304	331	443	400	479	514
## ENSG00000121486	258	277	357	328	360	400
## ENSG00000116668	46	35	69	83	111	149
## ENSG00000116679	600	668	852	924	1107	1271
## ENSG00000143341	703	875	941	3672	3727	4389
## ENSG00000116690	1	4	3	10	9	24
## ENSG00000047410	2034	1997	2553	2878	3293	3738
## ENSG00000157181	223	225	290	358	382	424
## ENSG00000279374	0	1	0	0	1	0
## ENSG00000262180	2	3	2	4	4	1
## ENSG00000116703	0	0	0	0	0	0
## ENSG00000073756	21	28	48	2477	2027	4278
## ENSG00000116711	46	61	60	413	414	621
## ENSG00000162670	0	3	2	8	6	13
## ENSG00000150681	2	3	5	21	36	34
## ENSG00000253148	0	0	0	0	0	0
## ENSG00000090104	0	1	0	0	0	1
## ENSG00000127074	0	0	0	0	0	0
## ENSG00000116741	88	84	99	188	209	242
## ENSG00000116750	366	455	547	324	375	448
## ENSG00000116747	751	871	1039	776	952	996
## ENSG00000023572	172	194	204	184	222	238
## ENSG00000134371	876	1008	1218	376	480	553
## ENSG00000162630	45	62	75	9	14	7
## ENSG00000162687	30	18	23	6	8	10
## ENSG00000000971	323	356	439	373	429	497
## ENSG00000116785	0	0	0	0	0	0
## ENSG00000276911	0	0	0	0	0	0
## ENSG00000244414	0	0	0	0	0	0
## ENSG00000134365	0	0	0	0	0	0
## ENSG00000080910	0	0	0	0	0	0
## ENSG00000134389	0	0	0	0	0	0
## ENSG00000143278	0	0	0	0	0	0
## ENSG00000066279	875	913	1264	96	152	152
## ENSG00000177888	279	313	378	372	429	531
## ENSG00000134376	0	2	1	1	1	0
## ENSG00000213047	197	233	272	76	130	117
## ENSG00000203724	20	32	27	30	29	28
## ENSG00000143355	2	3	6	2	2	5
## ENSG00000151414	1980	2330	3034	2041	2537	2776
## ENSG00000151418	0	0	0	0	0	0
## ENSG00000081237	0	0	1	1	0	1
## ENSG00000116833	5	4	4	31	20	36
## ENSG00000162702	797	840	1141	1318	1550	2051
## ENSG00000118193	278	320	440	68	70	73
## ENSG00000118197	101	137	167	142	203	238
## ENSG00000118200	1377	1607	1912	2787	3056	3793
## ENSG00000170128	0	0	0	0	0	0
## ENSG00000163362	1	1	3	2	0	1
## ENSG00000116852	14	17	17	78	71	122
## ENSG00000081248	0	0	0	0	0	0
## ENSG00000232237	0	1	0	0	0	1

## ENSG00000116857	639	734	898	774	884	988
## ENSG00000163395	1	1	0	1	0	0
## ENSG00000081277	1	5	7	1	1	2
## ENSG00000118194	2	5	4	0	1	1
## ENSG00000159166	0	1	0	0	0	0
## ENSG00000159173	0	0	0	0	0	0
## ENSG00000174307	1431	1531	2124	2248	2440	2924
## ENSG00000159176	7280	8824	11152	1696	2239	2197
## ENSG00000134369	3647	4575	5204	5853	6529	7325
## ENSG00000198700	1280	1568	1921	1501	1657	1917
## ENSG00000198892	318	345	434	314	354	417
## ENSG00000163431	945	1036	1264	135	226	150
## ENSG00000134375	1415	1586	2003	1244	1441	1487
## ENSG00000176393	1060	1097	1430	1300	1339	1625
## ENSG00000163435	0	0	0	0	0	1
## ENSG00000170075	0	0	0	0	0	0
## ENSG00000143862	435	468	612	817	811	1015
## ENSG00000143851	0	0	1	0	0	0
## ENSG00000133067	0	0	0	0	0	0
## ENSG00000077152	148	202	234	59	60	72
## ENSG00000077157	247	286	313	190	231	246
## ENSG00000143858	3	1	1	0	2	1
## ENSG00000117139	1734	1834	2274	2191	2547	2927
## ENSG00000183155	173	228	248	309	331	376
## ENSG00000117153	378	413	557	374	424	465
## ENSG00000159346	1225	1517	1876	922	1101	1180
## ENSG00000159348	635	711	883	908	941	1082
## ENSG00000163444	566	657	826	625	727	843
## ENSG00000143847	13	23	16	1	9	8
## ENSG00000122180	0	0	0	0	0	0
## ENSG00000163485	23	19	24	64	42	61
## ENSG00000133055	0	0	1	0	0	0
## ENSG00000133048	4	2	10	25	15	23
## ENSG00000133063	1	0	0	3	0	1
## ENSG00000159388	273	208	291	1076	1042	1298
## ENSG00000122176	106	109	140	208	322	320
## ENSG00000188783	10	10	14	6	9	10
## ENSG00000188770	0	2	0	0	0	1
## ENSG00000058668	12095	14191	17801	6222	7586	7476
## ENSG00000122188	0	0	0	0	0	0
## ENSG00000058673	1677	1927	2364	2579	2990	3329
## ENSG00000257315	244	279	302	458	447	542
## ENSG00000182004	513	615	731	530	575	746
## ENSG00000143842	57	62	78	62	71	85
## ENSG00000143845	184	207	243	99	139	161
## ENSG00000143839	3	2	1	5	4	2
## ENSG00000170498	30	43	67	24	25	31
## ENSG00000174567	0	2	0	0	3	0
## ENSG00000143850	468	482	664	141	204	165
## ENSG00000158615	662	856	1027	1291	1561	1836
## ENSG00000133056	82	91	131	20	40	34
## ENSG00000198625	179	230	261	184	216	255
## ENSG00000170382	1	0	0	0	1	1
## ENSG00000163531	61	85	93	29	28	39

## ENSG00000184144	0	3	0	0	0	0
## ENSG00000174529	22	22	20	18	20	21
## ENSG00000117222	357	394	464	369	457	500
## ENSG00000133059	860	980	1167	924	1045	1206
## ENSG00000133069	129	109	194	39	51	56
## ENSG00000163545	339	312	462	208	206	230
## ENSG00000162873	0	0	1	0	1	0
## ENSG00000186007	0	0	0	0	0	0
## ENSG00000117266	0	2	0	0	2	12
## ENSG00000174514	2	4	2	7	5	13
## ENSG00000158711	711	823	894	755	788	953
## ENSG00000158715	107	102	143	164	165	198
## ENSG00000069275	4275	5297	6336	3978	4662	5218
## ENSG00000117280	209	196	248	311	306	397
## ENSG00000133065	724	794	1005	791	840	968
## ENSG00000162877	0	0	0	0	0	0
## ENSG00000174502	0	0	0	0	0	0
## ENSG00000276600	155	149	219	116	117	110
## ENSG00000196188	0	0	0	0	0	0
## ENSG00000263961	0	0	0	0	0	0
## ENSG00000198049	0	0	0	0	0	0
## ENSG00000196550	10	11	16	6	4	5
## ENSG00000266028	619	706	872	587	641	759
## ENSG00000263528	329	388	478	264	306	370
## ENSG00000266094	36	29	49	10	18	33
## ENSG00000143486	484	576	812	179	215	246
## ENSG00000143479	180	199	265	443	423	631
## ENSG00000162889	1665	2019	2497	2954	3169	3793
## ENSG00000136634	0	0	0	0	0	0
## ENSG00000142224	0	0	0	0	0	0
## ENSG00000162891	0	0	1	5	2	2
## ENSG00000162892	0	1	0	49	35	80
## ENSG00000162894	2	1	3	8	10	15
## ENSG00000162896	0	0	0	0	0	1
## ENSG00000162897	0	0	0	0	0	0
## ENSG00000182795	0	0	2	0	0	0
## ENSG00000123836	43	42	52	72	86	88
## ENSG00000180667	157	208	290	232	200	237
## ENSG00000123843	0	0	1	0	0	0
## ENSG00000123838	0	0	0	0	0	0
## ENSG00000196352	207	248	274	471	505	640
## ENSG00000117322	0	0	0	0	0	0
## ENSG00000203710	0	0	0	0	0	0
## ENSG00000197721	1	0	0	0	0	0
## ENSG00000117335	1870	2107	2635	3401	3802	4470
## ENSG00000174059	1	1	4	0	0	0
## ENSG00000076356	89	100	153	103	105	126
## ENSG00000008118	28	29	26	92	68	93
## ENSG00000196878	57	40	76	32	31	37
## ENSG00000123689	9	4	3	32	32	59
## ENSG00000117594	40	36	46	226	233	291
## ENSG00000009790	1	1	0	1	0	0
## ENSG00000162757	39	43	37	22	19	29
## ENSG00000117595	6	5	4	4	7	9

## ENSG00000117597	403	455	551	1058	1127	1384
## ENSG00000143469	39	35	50	271	264	313
## ENSG00000082497	10	7	9	9	11	10
## ENSG00000054392	85	114	125	150	193	181
## ENSG00000143473	31	31	29	13	19	17
## ENSG00000117625	291	326	434	333	375	411
## ENSG00000082512	251	296	309	77	84	90
## ENSG00000198570	1	0	0	0	0	0
## ENSG00000170385	745	758	955	910	1114	1273
## ENSG00000117650	195	203	266	18	27	24
## ENSG00000123684	713	899	1028	911	1128	1275
## ENSG00000143493	244	271	337	146	191	217
## ENSG00000143476	181	236	347	34	49	42
## ENSG00000066027	367	445	584	404	453	569
## ENSG00000065600	145	162	236	365	391	503
## ENSG00000117691	327	341	451	401	449	509
## ENSG00000162772	92	88	128	240	253	383
## ENSG00000162771	0	0	0	0	0	0
## ENSG00000123685	20	23	31	9	17	12
## ENSG00000117697	280	323	381	271	302	347
## ENSG00000203705	72	112	125	137	156	177
## ENSG00000185523	0	1	2	0	1	1
## ENSG00000162769	79	75	103	64	82	92
## ENSG00000143494	41	31	56	188	214	264
## ENSG00000174606	224	322	359	456	476	585
## ENSG00000136643	659	802	944	480	654	645
## ENSG00000117707	5	3	3	13	16	15
## ENSG00000143499	366	428	516	192	256	332
## ENSG00000152104	2942	3790	3747	2760	3257	3240
## ENSG00000117724	1864	2070	2732	254	393	412
## ENSG00000082482	488	580	789	187	239	232
## ENSG00000136636	721	914	1105	725	877	989
## ENSG00000042781	3	2	6	0	3	1
## ENSG00000196482	9	13	7	3	3	5
## ENSG00000092978	187	207	265	239	228	314
## ENSG00000162814	3	4	4	6	11	13
## ENSG00000067533	338	402	470	240	273	326
## ENSG00000092969	290	311	380	390	481	526
## ENSG00000143353	113	115	164	118	127	127
## ENSG00000196660	0	0	0	1	0	0
## ENSG00000136628	4878	5409	6937	2635	3355	3230
## ENSG00000162813	330	362	513	441	455	546
## ENSG00000067704	1591	1907	2440	1887	2160	2548
## ENSG00000118873	945	1022	1250	630	736	765
## ENSG00000116141	0	0	0	0	1	0
## ENSG00000162817	1	0	2	4	5	1
## ENSG00000117791	26	18	30	13	12	19
## ENSG00000186205	1	5	9	5	3	5
## ENSG00000136630	91	85	120	68	91	97
## ENSG00000143507	539	630	777	516	520	613
## ENSG00000143512	0	2	1	0	3	1
## ENSG00000143498	32	41	63	63	53	49
## ENSG00000154305	1126	1201	1518	960	1127	1318
## ENSG00000186063	997	1224	1427	1067	1103	1344

## ENSG00000162819	680	752	928	816	935	1178
## ENSG00000197520	0	0	0	0	0	1
## ENSG00000154309	82	110	148	125	146	174
## ENSG00000187554	4	4	2	2	3	1
## ENSG00000143502	10	14	17	0	5	10
## ENSG00000178395	0	0	0	0	0	0
## ENSG00000203697	0	0	0	0	0	0
## ENSG00000162909	13488	15639	19967	9432	10400	11867
## ENSG00000143514	754	895	1044	879	984	1222
## ENSG00000143756	606	716	957	593	715	821
## ENSG00000143753	1922	2332	2848	2100	2324	2795
## ENSG00000143748	212	234	313	186	214	231
## ENSG00000143771	324	365	426	378	386	526
## ENSG00000162923	2322	2714	3416	3462	4032	4740
## ENSG00000143786	151	164	212	663	613	873
## ENSG00000185842	41	51	45	42	59	71
## ENSG00000143815	574	673	938	419	466	583
## ENSG00000154380	3134	3595	4393	1522	1899	2058
## ENSG00000143742	1859	2251	2689	2215	2481	3027
## ENSG00000143819	394	422	584	735	744	942
## ENSG00000196187	399	378	557	455	480	591
## ENSG00000243709	0	0	0	0	0	0
## ENSG00000255835	0	0	0	0	0	0
## ENSG00000143811	250	328	327	265	276	281
## ENSG00000143768	0	0	0	0	0	0
## ENSG00000143751	323	390	494	474	611	701
## ENSG00000163041	610	699	859	952	1096	1341
## ENSG00000182827	1433	1645	2155	1716	1987	2152
## ENSG00000185155	0	0	1	1	1	1
## ENSG00000183814	54	86	95	32	45	45
## ENSG00000143799	1453	1603	2093	256	329	358
## ENSG00000203685	0	0	0	0	0	0
## ENSG00000143772	149	167	242	150	185	228
## ENSG00000143801	186	215	256	202	214	320
## ENSG00000163050	74	109	106	76	110	122
## ENSG00000143776	1306	1598	1643	1172	1309	1411
## ENSG00000181450	49	57	69	92	110	139
## ENSG00000143740	352	418	573	517	538	700
## ENSG00000081692	96	111	135	114	108	137
## ENSG00000185888	0	0	0	0	0	0
## ENSG00000143816	20	16	24	30	29	27
## ENSG00000154342	0	0	0	0	0	0
## ENSG00000143761	6173	7204	9405	6003	7029	7810
## ENSG00000143793	125	143	182	131	164	155
## ENSG00000162910	179	217	297	232	274	283
## ENSG00000143774	1882	2119	2643	2237	2495	2811
## ENSG00000198835	28	32	39	38	33	26
## ENSG00000181873	114	159	199	200	223	281
## ENSG00000162913	8	6	10	26	18	26
## ENSG00000154358	362	389	430	751	679	972
## ENSG00000154370	283	329	420	454	493	602
## ENSG00000162931	7	9	12	3	10	6
## ENSG00000168148	0	0	1	0	1	0
## ENSG00000181218	28	26	34	56	70	96

## ENSG00000196890	1	1	2	2	3	5
## ENSG00000168159	1349	1459	2049	1895	2027	2457
## ENSG00000116574	33	50	51	48	67	72
## ENSG00000177800	0	0	0	0	0	0
## ENSG00000168118	443	530	664	555	644	875
## ENSG00000213029	0	0	0	0	0	0
## ENSG00000154429	183	203	271	214	239	289
## ENSG00000143632	3	2	4	0	2	2
## ENSG00000069248	635	764	956	844	988	1015
## ENSG00000135776	300	301	412	89	120	127
## ENSG00000135801	376	397	515	261	307	345
## ENSG00000135763	266	317	404	286	337	382
## ENSG00000143641	5215	5637	7469	4068	4650	5111
## ENSG00000177614	7	5	12	16	11	20
## ENSG00000135775	261	298	358	261	295	337
## ENSG00000135744	11	11	18	54	46	53
## ENSG00000135773	2	1	1	0	0	0
## ENSG00000119280	1376	1768	2141	739	970	940
## ENSG00000143643	240	309	415	241	284	321
## ENSG00000173409	167	181	255	164	189	206
## ENSG00000182118	68	81	96	216	236	293
## ENSG00000119283	0	0	1	2	2	2
## ENSG00000143633	114	90	124	106	144	152
## ENSG00000116906	513	622	771	603	736	803
## ENSG00000116903	256	245	327	373	344	439
## ENSG00000010072	177	172	249	282	314	404
## ENSG00000135766	643	744	952	717	789	984
## ENSG00000270106	0	0	0	0	0	0
## ENSG00000116918	387	449	534	563	623	776
## ENSG00000162946	76	79	102	66	75	80
## ENSG00000116991	235	226	300	1334	1444	1817
## ENSG00000212916	38	35	46	28	31	48
## ENSG00000135778	217	242	349	283	281	337
## ENSG00000135749	348	396	478	590	623	778
## ENSG00000143674	4	4	5	5	11	7
## ENSG00000135750	24	13	34	28	39	33
## ENSG00000183780	4	7	7	17	9	30
## ENSG00000168275	161	171	211	203	206	288
## ENSG00000059588	151	169	247	107	128	139
## ENSG00000168264	787	875	1082	908	1025	1151
## ENSG00000279261	0	0	0	0	0	0
## ENSG00000173726	2467	2980	3619	3940	4625	5084
## ENSG00000188739	10	6	20	19	20	16
## ENSG00000054267	598	638	781	711	766	903
## ENSG00000152904	310	389	390	391	440	478
## ENSG00000116957	291	358	461	240	240	284
## ENSG00000162885	156	161	226	197	231	251
## ENSG00000168243	3	10	7	4	3	8
## ENSG00000143669	214	244	285	379	438	459
## ENSG00000116962	2987	3171	4227	5118	5540	7014
## ENSG00000077585	227	240	318	541	554	722
## ENSG00000086619	69	74	80	131	128	157
## ENSG00000186197	0	1	0	0	0	0
## ENSG00000116977	530	588	730	730	860	1030

## ENSG00000119285	927	1061	1302	968	1092	1279
## ENSG00000077522	0	0	2	0	1	0
## ENSG00000116984	681	742	827	668	849	829
## ENSG00000244020	0	0	0	0	0	0
## ENSG00000198626	0	0	0	0	1	0
## ENSG00000116996	0	0	0	0	0	0
## ENSG00000270188	0	0	0	0	0	0
## ENSG00000133019	0	1	0	0	1	2
## ENSG00000155816	646	811	950	279	384	376
## ENSG00000180875	324	462	536	452	463	572
## ENSG00000182901	10	11	12	7	7	8
## ENSG00000091483	976	1147	1513	584	675	662
## ENSG00000117009	0	1	1	1	0	0
## ENSG00000054277	123	122	175	159	203	199
## ENSG00000203668	350	450	503	259	340	326
## ENSG00000162843	1	1	1	0	1	0
## ENSG00000174371	105	149	150	23	33	24
## ENSG00000196289	0	0	0	0	0	0
## ENSG00000197769	0	1	0	1	0	0
## ENSG00000180287	0	0	0	0	1	0
## ENSG00000143702	2673	3196	4014	2144	2472	2721
## ENSG00000054282	364	446	522	578	661	711
## ENSG00000117020	815	981	1115	1463	1549	1864
## ENSG00000179456	210	235	315	199	229	262
## ENSG00000173728	0	1	0	3	2	1
## ENSG00000035687	915	1047	1349	1827	2030	2491
## ENSG00000179397	4	3	3	6	8	6
## ENSG00000121644	1020	1202	1497	809	964	1122
## ENSG00000203667	13	13	21	13	10	19
## ENSG00000277877	2	1	1	9	5	7
## ENSG00000153187	4918	5662	7122	5610	6330	7654
## ENSG00000203666	35	43	51	68	50	64
## ENSG00000162849	188	220	191	205	234	229
## ENSG00000185420	212	245	269	167	182	221
## ENSG00000162851	211	272	316	310	341	437
## ENSG00000162852	683	854	989	530	609	710
## ENSG00000143653	554	619	780	535	634	748
## ENSG00000153207	999	1098	1406	1084	1217	1422
## ENSG00000197472	3	7	7	0	1	2
## ENSG00000135747	0	0	0	0	0	1
## ENSG00000277462	32	22	49	54	53	62
## ENSG00000188295	72	47	77	153	165	189
## ENSG00000196418	43	47	56	131	138	186
## ENSG00000162714	457	507	662	528	631	720
## ENSG00000162711	0	2	3	3	0	4
## ENSG00000177535	0	0	0	0	0	0
## ENSG00000169224	0	0	0	0	1	0
## ENSG00000196242	0	0	0	0	0	0
## ENSG00000177489	0	0	0	0	0	0
## ENSG00000177476	0	0	0	0	0	0
## ENSG00000197437	0	0	0	0	0	0
## ENSG00000169214	0	0	0	0	0	0
## ENSG00000241128	0	0	0	0	0	0
## ENSG00000153230	0	0	0	0	0	0



## ENSG00000221888	0	0	0	0	0	0
## ENSG00000196772	0	0	0	0	0	0
## ENSG00000197591	0	0	0	0	0	0
## ENSG00000162722	38	53	60	28	32	51
## ENSG00000238243	5	4	2	1	6	3
## ENSG00000177462	1	0	0	0	0	0
## ENSG00000177275	0	0	0	0	0	0
## ENSG00000196071	0	0	0	0	0	0
## ENSG00000196936	0	0	0	0	0	0
## ENSG00000187080	0	0	0	0	0	0
## ENSG00000197454	0	0	0	0	0	0
## ENSG00000203663	0	0	0	0	0	0
## ENSG00000198128	0	0	0	0	0	0
## ENSG00000162727	0	0	0	0	0	0
## ENSG00000198601	0	0	0	0	0	0
## ENSG00000228198	0	0	0	0	0	0
## ENSG00000171180	0	0	0	0	0	0
## ENSG00000177212	0	0	0	0	0	0
## ENSG00000177201	0	0	0	0	0	0
## ENSG00000177186	0	0	0	0	0	0
## ENSG00000177174	0	0	0	0	0	0
## ENSG00000196944	0	0	0	0	0	0
## ENSG00000198104	0	0	0	0	0	0
## ENSG00000175143	0	0	0	0	0	0
## ENSG00000196240	0	0	0	0	0	0
## ENSG00000196539	0	0	0	0	0	0
## ENSG00000203661	0	0	0	0	0	0
## ENSG00000188558	0	0	0	0	0	0
## ENSG00000182783	0	0	0	0	0	0
## ENSG00000183310	0	0	0	0	0	0
## ENSG00000184022	0	0	0	0	0	0
## ENSG00000183130	0	0	0	0	0	0
## ENSG00000177151	0	0	0	0	0	0
## ENSG00000187701	0	0	0	0	0	0
## ENSG00000189181	0	0	0	0	0	0
## ENSG00000259823	0	0	0	0	0	0
## ENSG00000175137	1064	1232	1580	1443	1615	1841
## ENSG00000171161	195	237	305	279	266	385
## ENSG00000171163	98	91	145	117	112	114
## ENSG00000185220	31	38	53	63	70	85
## ENSG00000184731	0	0	0	0	0	0
## ENSG00000035115	154	141	196	173	227	235
## ENSG00000143727	902	1060	1300	704	806	905
## ENSG00000189292	1	2	2	0	0	1
## ENSG00000151353	204	232	286	192	201	245
## ENSG00000280360	0	0	0	0	0	0
## ENSG00000172554	1	2	2	5	4	1
## ENSG00000115705	0	0	1	2	4	0
## ENSG00000130508	24144	26616	34333	39007	40726	51532
## ENSG00000186487	0	0	0	0	0	0
## ENSG00000032389	261	348	418	325	331	388
## ENSG00000171853	511	639	809	633	641	822
## ENSG00000182551	828	987	1185	1258	1396	1556
## ENSG00000255767	0	0	0	0	0	0

## ENSG00000171865	443	574	622	555	587	663
## ENSG00000171863	5256	6232	7440	5765	6354	7361
## ENSG00000118004	0	0	0	0	2	2
## ENSG00000151360	0	0	0	0	0	0
## ENSG00000214866	0	0	0	0	0	0
## ENSG00000176887	405	486	665	320	374	417
## ENSG00000134326	0	2	1	3	4	1
## ENSG00000134321	0	1	0	0	1	2
## ENSG00000151692	4	4	5	10	12	15
## ENSG00000115738	840	866	1250	541	664	720
## ENSG00000134313	1676	1836	2214	2665	2931	3425
## ENSG00000143797	652	735	902	518	526	765
## ENSG00000151693	741	865	1153	767	899	1035
## ENSG00000119185	985	1133	1469	885	983	1164
## ENSG00000119203	529	613	713	565	654	761
## ENSG00000134330	395	429	516	410	412	470
## ENSG00000151694	422	460	577	495	565	675
## ENSG00000134308	5445	6510	8393	6176	7030	8140
## ENSG00000115750	226	285	348	271	316	377
## ENSG00000134317	3	6	2	1	4	2
## ENSG00000172059	47	66	90	119	139	138
## ENSG00000205795	17	16	24	11	17	10
## ENSG00000171848	1018	1336	1699	205	281	297
## ENSG00000115756	502	558	736	994	924	1323
## ENSG00000115758	1766	2116	2781	4106	4147	5435
## ENSG00000115761	451	507	566	404	447	518
## ENSG00000143882	6	8	15	9	16	13
## ENSG00000143870	4646	4952	6365	5694	5889	6977
## ENSG00000162975	68	83	116	431	417	566
## ENSG00000150873	0	0	0	2	3	0
## ENSG00000162976	133	154	202	126	161	175
## ENSG00000134318	1507	1737	2142	1843	2283	2599
## ENSG00000169016	175	238	255	306	332	444
## ENSG00000196208	5	2	3	13	20	21
## ENSG00000169006	0	0	0	0	0	0
## ENSG00000134324	809	946	1163	929	1002	1200
## ENSG00000071575	521	612	668	488	471	597
## ENSG00000162981	13	23	29	127	134	180
## ENSG00000151779	1304	1419	1752	1106	1266	1281
## ENSG00000079785	1717	1981	2586	1648	1889	2074
## ENSG00000134323	0	0	0	0	0	0
## ENSG00000197872	104	126	171	80	124	98
## ENSG00000214842	0	0	0	0	0	0
## ENSG00000163032	5	12	5	7	3	7
## ENSG00000163029	370	405	481	449	559	586
## ENSG00000178295	148	219	233	164	193	222
## ENSG00000151379	0	0	0	0	0	0
## ENSG00000170745	67	59	90	40	62	73
## ENSG00000240857	139	130	187	150	143	162
## ENSG00000250741	0	0	0	0	0	0
## ENSG00000185013	1	3	1	0	2	0
## ENSG00000143867	393	411	605	76	99	102
## ENSG00000183891	18	20	28	26	27	36
## ENSG00000118965	132	162	224	375	443	508

## ENSG00000132031	80	125	138	101	109	149
## ENSG00000068697	3857	4425	5444	7775	8498	10643
## ENSG00000115884	814	1001	1265	309	364	388
## ENSG00000055917	1218	1338	1658	1932	2124	2699
## ENSG00000143878	1146	1382	1835	1958	2334	2864
## ENSG00000118960	292	305	402	444	444	498
## ENSG00000143869	2	0	3	7	10	6
## ENSG00000118961	217	241	339	287	304	350
## ENSG00000084674	0	0	0	0	1	0
## ENSG00000218819	0	0	0	0	0	0
## ENSG00000119771	254	279	347	372	431	540
## ENSG00000119778	159	144	209	232	262	341
## ENSG00000173960	301	359	394	521	618	707
## ENSG00000205639	3	6	3	3	4	5
## ENSG00000163026	201	194	289	216	243	275
## ENSG00000119782	27	34	35	36	46	39
## ENSG00000115128	574	611	760	403	468	530
## ENSG00000219626	23	52	46	32	23	27
## ENSG00000115129	354	414	531	771	853	1014
## ENSG00000176732	3	3	2	3	1	2
## ENSG00000276087	0	0	0	0	0	0
## ENSG00000186453	0	0	2	0	0	0
## ENSG00000198399	468	546	710	448	491	555
## ENSG00000084676	364	421	567	413	496	522
## ENSG00000184924	107	120	148	137	120	169
## ENSG00000138092	263	322	389	193	244	224
## ENSG00000138031	389	440	574	904	1021	1228
## ENSG00000115137	58	66	79	67	84	90
## ENSG00000084710	26	37	58	49	50	60
## ENSG00000115138	1	3	4	1	5	1
## ENSG00000119772	337	328	370	292	361	400
## ENSG00000138101	48	42	66	69	76	72
## ENSG00000143970	676	801	929	373	445	490
## ENSG00000084731	728	901	1134	1177	1239	1546
## ENSG00000084733	1965	2215	2809	2104	2478	2794
## ENSG00000157833	62	58	77	37	44	70
## ENSG00000084754	1954	2199	2741	2252	2594	2894
## ENSG00000138029	1437	1741	2069	2136	2505	2908
## ENSG00000173567	2	2	3	4	3	3
## ENSG00000138018	613	674	832	957	1061	1282
## ENSG00000157856	1	0	5	1	3	2
## ENSG00000115155	0	0	0	1	0	1
## ENSG00000173557	0	0	0	0	0	0
## ENSG00000157884	0	0	0	0	0	0
## ENSG00000171303	1	3	4	0	2	2
## ENSG00000213699	760	887	1103	1343	1468	1722
## ENSG00000115163	96	132	155	14	20	24
## ENSG00000157851	0	0	0	0	0	0
## ENSG00000084764	325	389	497	415	501	536
## ENSG00000119777	2205	2597	3224	1624	1821	1993
## ENSG00000084693	323	363	426	239	267	383
## ENSG00000228474	1335	1565	1875	999	1135	1313
## ENSG00000138080	4988	5474	7270	7161	7977	9052
## ENSG00000138030	5	4	11	0	3	3

## ENSG00000138028	14	17	20	4	16	19
## ENSG00000143994	3	1	3	8	1	4
## ENSG00000138073	725	822	980	1040	1079	1328
## ENSG00000186143	0	0	0	0	0	0
## ENSG00000163792	0	0	0	0	0	0
## ENSG00000138074	329	406	541	491	558	714
## ENSG00000138085	583	645	849	838	876	1031
## ENSG00000084774	1318	1486	2040	1036	1146	1389
## ENSG00000115194	1	1	1	2	4	7
## ENSG00000163793	0	0	0	0	0	0
## ENSG00000138100	0	2	1	0	0	2
## ENSG00000163794	2	0	7	5	1	8
## ENSG00000115204	475	525	631	554	578	691
## ENSG00000115207	494	641	758	758	802	974
## ENSG00000115211	452	545	684	539	582	631
## ENSG00000115234	1775	2002	2598	1977	2254	2556
## ENSG00000163795	135	175	239	231	294	397
## ENSG00000115241	1531	1622	2140	1511	1661	1962
## ENSG00000115216	2176	2461	3201	2937	3312	3710
## ENSG00000157992	0	1	1	0	0	1
## ENSG00000138002	218	254	318	214	224	294
## ENSG00000115226	253	313	356	277	323	374
## ENSG00000084734	0	0	2	1	2	1
## ENSG00000233438	0	1	0	1	2	3
## ENSG00000280034	0	0	0	1	0	0
## ENSG00000221843	30	28	31	43	42	51
## ENSG00000243943	218	253	319	163	212	232
## ENSG00000176714	10	15	24	9	7	7
## ENSG00000198522	399	484	582	202	256	278
## ENSG00000119760	391	382	530	497	580	711
## ENSG00000163798	454	504	602	552	629	701
## ENSG00000243147	330	373	464	372	378	398
## ENSG00000171174	10	13	20	17	16	17
## ENSG00000158019	228	229	278	170	212	210
## ENSG00000075426	1606	1776	2332	490	562	515
## ENSG00000163803	11	21	25	13	12	11
## ENSG00000213639	1891	2184	2751	1845	2193	2534
## ENSG00000163806	3	4	3	6	7	6
## ENSG00000171103	80	99	127	86	87	99
## ENSG00000163811	895	1070	1335	982	1096	1256
## ENSG00000189350	1	0	0	0	0	0
## ENSG00000179270	0	0	0	0	0	0
## ENSG00000115295	899	987	1241	935	1207	1256
## ENSG00000171094	1	0	0	5	0	0
## ENSG00000119801	1083	1298	1600	1888	2276	2521
## ENSG00000213626	2903	3532	4273	552	966	733
## ENSG00000172954	258	341	450	194	264	239
## ENSG00000162949	0	0	0	0	0	0
## ENSG00000158089	0	1	1	0	0	2
## ENSG00000214711	2	3	1	6	0	5
## ENSG00000013016	1169	1316	1595	1437	1625	1796
## ENSG00000158125	52	54	57	26	23	23
## ENSG00000277893	0	0	0	0	0	0
## ENSG00000162959	36	38	53	37	63	66

## ENSG00000162961	274	321	378	330	374	429
## ENSG00000021574	244	264	368	262	394	378
## ENSG00000152683	476	586	695	334	440	461
## ENSG00000091106	4	5	7	5	11	12
## ENSG00000119820	690	865	1007	1238	1345	1663
## ENSG00000115760	2200	2461	2868	2171	2277	2407
## ENSG00000018699	261	323	376	238	279	292
## ENSG00000049323	13563	14817	19261	10217	11485	13215
## ENSG00000152689	60	50	88	438	442	697
## ENSG00000119812	2297	2605	3403	1629	1949	1972
## ENSG00000150938	9455	10858	14191	2612	3347	3295
## ENSG00000171055	770	974	1146	316	368	421
## ENSG00000205221	0	0	1	0	0	0
## ENSG00000115808	492	620	744	475	568	629
## ENSG00000008869	450	463	611	414	447	559
## ENSG00000152133	231	277	346	313	323	409
## ENSG00000055332	1094	1307	1595	1560	1710	1951
## ENSG00000138068	0	0	0	0	0	0
## ENSG00000218739	623	773	868	547	619	781
## ENSG00000115816	467	472	627	433	534	603
## ENSG00000003509	112	130	177	125	139	160
## ENSG00000115825	790	929	1153	736	877	1030
## ENSG00000115828	47	48	69	49	48	48
## ENSG00000163171	5700	6891	8509	1608	2254	1945
## ENSG00000115841	56	61	93	107	148	143
## ENSG00000138061	77	66	99	182	183	266
## ENSG00000119787	253	332	411	366	493	530
## ENSG00000143889	663	754	958	767	863	1096
## ENSG00000143891	228	257	321	249	267	301
## ENSG00000115875	1007	1261	1533	679	809	980
## ENSG00000152147	93	127	163	114	92	153
## ENSG00000163214	483	493	693	281	344	385
## ENSG00000188010	80	107	124	98	124	148
## ENSG00000214694	4	5	5	3	8	5
## ENSG00000115904	769	828	1049	1025	1183	1326
## ENSG00000205111	0	0	0	2	0	2
## ENSG00000011566	608	729	914	1439	1735	1993
## ENSG00000152154	5	5	2	6	6	6
## ENSG00000138050	98	113	150	96	114	150
## ENSG00000183023	546	646	864	322	454	399
## ENSG00000205086	0	0	0	0	0	0
## ENSG00000162878	271	303	398	91	95	86
## ENSG00000143924	989	1123	1403	359	449	528
## ENSG00000115944	1113	1260	1456	1635	1743	2009
## ENSG00000171126	1	0	0	0	1	0
## ENSG00000057935	300	361	402	173	193	212
## ENSG00000162881	0	0	0	0	0	0
## ENSG00000162882	2	1	2	0	1	3
## ENSG00000152518	874	997	1224	631	731	722
## ENSG00000115970	332	408	510	411	482	573
## ENSG00000152527	69	75	105	281	302	333
## ENSG00000138036	110	130	160	133	150	172
## ENSG00000138075	0	0	0	0	0	0
## ENSG00000143921	0	0	0	0	0	0

## ENSG00000138095	1646	1937	2476	2375	2688	3308
## ENSG00000138032	453	449	583	575	675	741
## ENSG00000138079	0	2	0	0	1	0
## ENSG00000138078	976	1098	1307	516	596	645
## ENSG00000143919	60	69	97	47	55	53
## ENSG00000138083	0	0	0	0	0	0
## ENSG00000170577	0	0	0	0	0	1
## ENSG00000068784	141	161	218	129	131	159
## ENSG00000171132	168	217	287	293	335	397
## ENSG00000116016	5655	6341	7939	1793	1997	2262
## ENSG00000187600	0	0	0	0	0	0
## ENSG00000250565	51	52	53	28	33	44
## ENSG00000119729	1101	1273	1470	1179	1388	1480
## ENSG00000151665	122	147	188	126	143	122
## ENSG00000119878	178	185	197	223	270	275
## ENSG00000171150	1707	2170	2630	1681	1971	2080
## ENSG00000180398	6749	7621	9563	3961	4678	5097
## ENSG00000068724	303	340	469	221	260	257
## ENSG00000239605	2	0	1	0	2	1
## ENSG00000273269	0	0	0	0	0	0
## ENSG00000143933	9993	12261	14498	10266	12940	13079
## ENSG00000119888	1	2	6	7	5	3
## ENSG00000095002	328	378	462	286	321	335
## ENSG00000184261	1	1	5	7	3	6
## ENSG00000116062	715	804	1078	525	632	675
## ENSG00000138081	435	491	620	335	439	462
## ENSG00000170802	194	225	337	167	201	238
## ENSG00000162869	213	273	360	237	303	290
## ENSG00000243244	97	108	133	142	190	213
## ENSG00000068781	0	0	0	0	0	0
## ENSG00000242441	0	0	0	0	0	0
## ENSG00000279956	0	0	0	0	0	0
## ENSG00000138039	0	1	0	0	1	0
## ENSG00000170820	0	0	0	0	0	0
## ENSG00000179915	2	3	0	2	0	6
## ENSG00000115239	12	18	10	16	12	17
## ENSG00000270898	2	1	1	3	0	3
## ENSG00000143942	35	35	45	18	22	19
## ENSG00000068912	1519	1774	2109	2233	2491	2797
## ENSG00000119737	19	25	17	33	33	28
## ENSG00000068878	2146	2518	3216	2651	3154	3573
## ENSG00000170634	93	92	134	105	108	124
## ENSG00000178021	1	0	0	0	0	0
## ENSG00000177994	0	0	0	0	0	0
## ENSG00000115306	5979	6890	8941	4071	4369	5083
## ENSG00000214595	4	1	6	14	16	12
## ENSG00000115310	17852	20247	26267	13874	16185	18327
## ENSG00000162994	29	29	47	41	43	52
## ENSG00000143947	4724	5367	6567	4741	5237	5853
## ENSG00000085760	374	374	524	354	426	490
## ENSG00000115355	1012	1216	1470	551	736	830
## ENSG00000163001	364	452	495	570	626	777
## ENSG00000275052	920	990	1198	1227	1319	1495
## ENSG00000138035	405	401	533	427	491	557

## ENSG00000115380	1652	1851	2350	2514	3224	3157
## ENSG00000055813	8	14	9	3	7	0
## ENSG00000028116	181	202	287	285	356	387
## ENSG00000115392	65	80	97	72	93	129
## ENSG00000119866	9	11	12	14	13	19
## ENSG00000115421	175	145	209	242	280	304
## ENSG00000162924	37	46	43	35	28	38
## ENSG00000162927	49	81	77	73	72	70
## ENSG00000162928	403	445	542	483	540	647
## ENSG00000162929	112	138	162	88	96	130
## ENSG00000237651	15	9	10	11	11	11
## ENSG00000173209	103	105	128	189	184	217
## ENSG00000115464	1879	2046	2413	1395	1772	1962
## ENSG00000082898	2435	2944	3791	1344	1660	1922
## ENSG00000170264	30	36	60	15	30	43
## ENSG00000115484	2626	3035	3961	2548	2935	3336
## ENSG00000173163	224	281	361	171	199	257
## ENSG00000280544	0	0	0	0	0	0
## ENSG00000170340	173	211	255	249	302	372
## ENSG00000186889	25	24	30	35	55	61
## ENSG00000115504	768	940	1142	931	1159	1320
## ENSG00000115507	0	2	1	0	0	1
## ENSG00000143951	38	51	54	64	61	99
## ENSG00000014641	1291	1521	1900	1684	1879	2169
## ENSG00000281071	0	0	0	0	0	0
## ENSG00000169764	1091	1386	1625	908	1064	1194
## ENSG00000143952	406	480	582	213	285	325
## ENSG00000197329	59	48	83	189	220	202
## ENSG00000119862	26	35	33	26	20	25
## ENSG00000119844	146	160	258	196	232	285
## ENSG00000279644	0	0	0	0	0	0
## ENSG00000179833	528	641	773	342	348	399
## ENSG00000115902	599	622	829	271	378	369
## ENSG00000011523	182	198	236	91	111	151
## ENSG00000138069	3132	3823	4597	3089	3668	4022
## ENSG00000138071	7988	9443	11624	5987	7157	7978
## ENSG00000198369	625	740	952	418	540	562
## ENSG00000143995	944	957	1183	1033	1267	1376
## ENSG00000143971	160	192	208	141	182	205
## ENSG00000197223	263	279	319	339	373	387
## ENSG00000243667	15	12	14	18	19	17
## ENSG00000273398	0	0	0	0	0	0
## ENSG00000115946	363	410	485	508	553	653
## ENSG00000221823	533	660	780	836	914	1148
## ENSG00000119865	325	356	466	96	115	105
## ENSG00000115956	1	1	0	1	1	1
## ENSG00000204923	24	30	24	13	14	28
## ENSG00000169621	51	64	77	66	54	93
## ENSG00000169618	0	0	0	0	0	2
## ENSG00000163219	5	7	7	4	11	12
## ENSG00000163217	0	0	0	1	0	0
## ENSG00000183607	0	0	0	0	0	0
## ENSG00000169605	1	0	0	0	0	0
## ENSG00000169604	2347	2776	3420	4711	5246	6480

## ENSG00000198380	3173	3520	4392	2906	3425	3834
## ENSG00000169599	284	365	442	343	409	423
## ENSG00000115977	1213	1569	1541	874	989	1016
## ENSG00000196975	641	687	817	1235	1410	1577
## ENSG00000087338	207	233	284	441	434	541
## ENSG00000124380	351	446	562	467	510	635
## ENSG00000059728	203	224	255	192	236	293
## ENSG00000279229	0	0	0	1	0	1
## ENSG00000244617	1	2	2	6	2	6
## ENSG00000169564	1278	1513	1858	1238	1284	1587
## ENSG00000115998	125	129	167	149	156	165
## ENSG00000116001	699	765	973	1176	1454	1616
## ENSG00000116005	1892	2249	2736	1795	2155	2390
## ENSG00000143977	373	395	517	438	475	508
## ENSG00000035141	364	396	472	351	396	399
## ENSG00000163235	0	1	1	1	0	0
## ENSG00000075340	0	0	0	0	0	0
## ENSG00000183733	0	0	0	0	0	0
## ENSG00000152672	0	0	0	0	0	0
## ENSG00000116031	0	0	0	0	0	0
## ENSG00000116035	10	15	24	25	21	30
## ENSG00000116039	2	3	3	5	2	4
## ENSG00000258881	2	2	3	0	1	2
## ENSG00000144031	5	12	17	3	5	11
## ENSG00000144043	1827	1910	2538	2015	2288	2573
## ENSG00000124357	774	827	1140	664	770	810
## ENSG00000124370	80	69	89	67	67	61
## ENSG00000124383	463	579	658	616	687	809
## ENSG00000124374	5	13	9	1	2	0
## ENSG00000075292	1105	1160	1473	1515	1739	1929
## ENSG00000135636	39	46	64	37	32	36
## ENSG00000003137	1	1	2	17	14	21
## ENSG00000144036	771	886	1184	866	982	1142
## ENSG00000116096	197	212	230	217	248	298
## ENSG00000135638	0	1	0	0	0	0
## ENSG00000144040	284	283	366	219	252	269
## ENSG00000135631	1509	1668	2216	948	1062	1144
## ENSG00000214513	0	0	0	0	0	0
## ENSG00000135632	330	404	494	341	356	389
## ENSG00000135617	232	303	394	193	274	284
## ENSG00000135624	3522	4161	5267	2804	3087	3797
## ENSG00000163013	118	151	203	215	210	302
## ENSG00000135625	1	1	0	2	1	4
## ENSG00000116127	276	305	339	313	358	367
## ENSG00000144035	0	0	0	0	0	1
## ENSG00000144034	127	165	202	202	171	196
## ENSG00000144048	244	291	403	291	416	398
## ENSG00000187833	0	0	0	0	0	0
## ENSG00000124356	421	525	624	446	480	560
## ENSG00000163017	6128	6893	9049	1946	2444	2352
## ENSG00000114956	462	475	552	498	571	717
## ENSG00000187605	316	341	345	238	276	315
## ENSG00000163170	162	195	251	96	116	135
## ENSG00000114978	1542	1864	2259	2223	2621	3064



## ENSG00000065911	2081	2269	2725	586	747	733
## ENSG00000264324	0	0	2	0	0	0
## ENSG00000188687	3	1	1	2	2	1
## ENSG00000204843	4372	4797	6265	3354	3740	4254
## ENSG00000159239	11	11	10	15	17	28
## ENSG00000005448	121	151	190	172	177	197
## ENSG00000114993	189	220	287	239	242	319
## ENSG00000115274	4	4	8	6	5	6
## ENSG00000274049	0	0	1	0	0	0
## ENSG00000239779	27	50	48	80	79	99
## ENSG00000115275	1142	1279	1775	1442	1500	1776
## ENSG00000204822	13	14	28	19	19	22
## ENSG00000135637	67	74	117	99	95	94
## ENSG00000115282	194	196	316	231	259	317
## ENSG00000179528	4	4	4	2	5	7
## ENSG00000115289	70	75	120	180	175	214
## ENSG00000115297	0	0	0	0	0	0
## ENSG00000144045	1	0	0	0	1	1
## ENSG00000115307	823	877	1117	1258	1214	1612
## ENSG00000115317	150	200	239	201	216	268
## ENSG00000115318	290	313	387	347	404	458
## ENSG00000115325	196	186	266	127	169	200
## ENSG00000159374	1	0	2	0	1	2
## ENSG00000135622	241	224	302	167	186	195
## ENSG00000159399	519	653	805	2543	2543	3322
## ENSG00000115350	289	352	428	352	407	476
## ENSG00000115353	13	8	13	77	81	129
## ENSG00000115363	425	542	650	158	192	210
## ENSG00000115364	518	664	706	531	613	690
## ENSG00000005436	164	216	220	117	158	165
## ENSG00000176204	0	0	0	0	0	0
## ENSG00000143954	0	0	0	0	0	0
## ENSG00000172023	0	0	0	0	0	0
## ENSG00000115386	0	0	0	0	0	0
## ENSG00000172016	0	0	0	0	0	0
## ENSG00000066032	0	0	1	1	1	4
## ENSG00000162951	0	0	0	0	0	0
## ENSG00000163541	744	859	1066	617	729	849
## ENSG00000115423	0	1	0	1	1	5
## ENSG00000186854	249	288	413	191	207	267
## ENSG00000279992	0	0	0	0	0	0
## ENSG00000034510	15869	17558	21687	14695	16337	18094
## ENSG00000176407	903	1103	1309	742	852	984
## ENSG00000152284	257	315	419	297	306	412
## ENSG00000152291	6161	7029	8719	8609	9580	11128
## ENSG00000042445	614	635	800	800	903	1005
## ENSG00000115459	171	201	231	210	222	231
## ENSG00000042493	358	495	596	185	235	231
## ENSG00000152292	0	2	2	0	1	0
## ENSG00000168906	1752	1779	2392	2312	2499	3001
## ENSG00000115486	1076	1146	1533	933	952	1127
## ENSG00000118640	7	3	4	4	6	3
## ENSG00000281331	0	0	0	0	0	0
## ENSG00000168899	232	233	293	113	174	172

## ENSG00000168894	516	723	829	596	698	812
## ENSG00000168890	138	162	206	297	285	315
## ENSG00000168883	719	794	1010	696	838	1004
## ENSG00000168887	155	173	236	206	238	325
## ENSG00000168878	0	0	0	0	1	1
## ENSG00000115523	0	0	1	0	1	0
## ENSG00000168874	161	191	263	303	274	436
## ENSG00000115525	299	288	431	309	385	439
## ENSG00000068654	1330	1535	1882	1532	1552	1895
## ENSG00000132300	545	579	784	555	661	733
## ENSG00000132305	1236	1463	1962	1071	1206	1306
## ENSG00000132313	412	480	565	490	572	688
## ENSG00000068615	1	1	1	0	2	0
## ENSG00000115548	391	481	580	578	698	755
## ENSG00000115561	704	871	1053	863	1065	1086
## ENSG00000249884	0	2	3	0	3	2
## ENSG00000239305	148	166	230	238	317	334
## ENSG00000153561	278	296	425	995	1039	1231
## ENSG00000153563	0	0	0	0	0	0
## ENSG00000172116	0	0	0	0	0	0
## ENSG00000187627	1	2	0	1	1	2
## ENSG00000183281	0	0	0	0	0	0
## ENSG00000125551	1	0	1	3	1	3
## ENSG00000185304	1	1	1	5	3	6
## ENSG00000172086	327	410	459	362	375	459
## ENSG00000115593	0	0	0	0	0	0
## ENSG00000163586	0	0	0	0	0	0
## ENSG00000144115	0	1	0	0	2	0
## ENSG00000214336	0	0	0	0	0	1
## ENSG00000172073	0	0	0	0	0	0
## ENSG00000172071	285	315	422	131	153	187
## ENSG00000153574	137	173	201	215	225	266
## ENSG00000259916	0	0	0	0	0	0
## ENSG00000163060	0	0	0	0	0	0
## ENSG00000172005	0	0	0	1	1	0
## ENSG00000144029	464	549	703	526	544	765
## ENSG00000144026	65	112	113	121	133	133
## ENSG00000275111	66	59	70	84	84	92
## ENSG00000233757	9	9	15	28	38	34
## ENSG00000155066	1	1	1	2	3	5
## ENSG00000115041	44	56	77	50	44	40
## ENSG00000115042	202	251	285	188	207	268
## ENSG00000144015	0	0	0	0	0	0
## ENSG00000174501	20	24	28	54	49	63
## ENSG00000186281	3	1	4	1	1	2
## ENSG00000274286	0	0	0	0	0	0
## ENSG00000188886	0	0	0	0	0	1
## ENSG00000158050	11	23	29	30	33	37
## ENSG00000084090	1693	2012	2433	2312	2647	3185
## ENSG00000135956	1337	1529	2011	3022	3189	3903
## ENSG00000144021	813	968	1148	1133	1169	1344
## ENSG00000144028	3310	3633	4951	3837	4228	5056
## ENSG00000198885	11	10	12	4	3	3
## ENSG00000121152	190	266	338	30	40	31

## ENSG00000163121	0	0	0	0	0	0
## ENSG00000196843	95	126	129	120	154	193
## ENSG00000114982	821	873	1227	612	688	812
## ENSG00000249715	10	5	8	4	6	5
## ENSG00000114988	423	469	560	406	449	524
## ENSG00000158158	106	99	143	143	169	228
## ENSG00000168763	109	120	191	271	310	381
## ENSG00000163126	2	1	4	4	3	4
## ENSG00000213337	56	70	83	41	52	56
## ENSG00000168758	318	360	449	1168	1061	1474
## ENSG00000168754	0	0	0	0	0	0
## ENSG00000144199	7	16	27	9	10	8
## ENSG00000135976	28	40	32	63	57	68
## ENSG00000196912	10	19	28	21	29	27
## ENSG00000135940	590	654	872	757	835	946
## ENSG00000115073	558	630	851	668	795	942
## ENSG00000115085	2	0	0	0	1	1
## ENSG00000075568	1622	1826	2282	1742	1915	2177
## ENSG00000168658	0	0	0	0	0	0
## ENSG00000144191	1	1	0	3	1	2
## ENSG00000040933	410	478	552	504	606	709
## ENSG00000183513	116	118	128	143	175	249
## ENSG00000115446	273	274	339	428	465	594
## ENSG00000071073	0	1	1	9	2	9
## ENSG00000196872	0	0	0	0	0	0
## ENSG00000135951	10	8	7	14	14	23
## ENSG00000273045	0	1	1	0	0	3
## ENSG00000241962	1	2	6	3	1	1
## ENSG00000144182	19	19	35	26	18	35
## ENSG00000273155	0	0	0	0	0	0
## ENSG00000158411	127	134	175	142	155	205
## ENSG00000185414	372	431	518	353	405	472
## ENSG00000185674	0	0	2	2	0	1
## ENSG00000144214	6	0	6	8	6	10
## ENSG00000115514	506	597	730	620	705	856
## ENSG00000158417	2599	2859	3574	3170	3507	3895
## ENSG00000135945	263	302	411	294	324	358
## ENSG00000144218	605	733	868	995	1100	1148
## ENSG00000170500	19	29	29	15	22	26
## ENSG00000115526	109	133	136	134	153	209
## ENSG00000204640	0	0	0	0	0	0
## ENSG00000115539	255	275	366	292	311	346
## ENSG00000170485	330	368	507	179	209	200
## ENSG00000071082	4479	5174	6086	4553	5209	6107
## ENSG00000204634	33	40	40	168	172	211
## ENSG00000158435	532	607	843	815	865	1032
## ENSG00000163162	403	472	549	559	521	759
## ENSG00000175874	1	1	2	10	13	14
## ENSG00000196460	58	54	91	43	70	84
## ENSG00000071054	8226	9592	12028	14291	15703	18687
## ENSG00000115590	0	1	0	2	2	2
## ENSG00000115594	685	765	967	3493	3264	5444
## ENSG00000115598	1	2	3	10	8	14
## ENSG00000115602	1	2	4	9	10	16

## ENSG00000115604	11	17	16	98	71	187
## ENSG00000115607	0	0	0	2	2	0
## ENSG00000180251	0	1	0	1	0	0
## ENSG00000115616	0	0	0	3	2	1
## ENSG00000135953	99	102	112	166	191	239
## ENSG00000170417	14	21	18	17	21	18
## ENSG00000198914	0	0	0	0	0	0
## ENSG00000135972	196	256	306	159	179	186
## ENSG00000135973	0	0	0	0	0	0
## ENSG00000135966	400	440	538	485	552	658
## ENSG00000135974	226	255	278	281	339	387
## ENSG00000115641	2867	3310	4290	1584	2086	1982
## ENSG00000071051	328	370	490	685	688	887
## ENSG00000119147	0	0	0	0	0	0
## ENSG00000115652	803	866	1151	1016	1099	1334
## ENSG00000153165	2	4	1	3	4	2
## ENSG00000144057	0	0	1	4	7	5
## ENSG00000196862	0	0	0	0	2	0
## ENSG00000115665	0	0	0	0	0	0
## ENSG00000196228	0	0	0	0	0	0
## ENSG00000198203	1	0	0	1	1	0
## ENSG00000198075	3	10	6	6	6	8
## ENSG00000135968	641	700	868	1206	1398	1647
## ENSG00000169756	1593	2113	2373	2972	3519	4158
## ENSG00000153201	2530	2593	3198	3311	3743	4202
## ENSG00000163006	41	50	67	24	38	42
## ENSG00000135960	0	0	0	0	0	0
## ENSG00000172985	649	727	982	937	1070	1227
## ENSG00000279515	0	0	0	0	0	1
## ENSG00000186522	1227	1525	1862	605	766	771
## ENSG00000198142	217	246	323	145	190	214
## ENSG00000015568	3	1	3	2	1	3
## ENSG00000256977	0	0	0	0	2	2
## ENSG00000144063	8	9	9	0	1	2
## ENSG00000144061	23	25	35	31	35	26
## ENSG00000175701	56	69	84	68	87	90
## ENSG00000257207	0	0	0	0	0	0
## ENSG00000256671	0	0	0	0	1	0
## ENSG00000183054	0	0	0	0	2	0
## ENSG00000169679	472	532	727	68	76	93
## ENSG00000153093	0	1	0	0	0	1
## ENSG00000153094	27	32	44	57	65	61
## ENSG00000153107	494	585	722	442	538	586
## ENSG00000153208	9	15	25	13	21	20
## ENSG00000153214	943	1201	1443	859	1030	1336
## ENSG00000144152	3	5	17	9	5	13
## ENSG00000144161	45	42	59	41	40	46
## ENSG00000188177	68	72	92	87	106	111
## ENSG00000169629	9	9	16	19	9	16
## ENSG00000114999	1011	1252	1567	1154	1263	1515
## ENSG00000125630	313	344	527	289	302	355
## ENSG00000125611	101	95	133	118	133	147
## ENSG00000144136	5143	5904	7532	6102	6615	7967
## ENSG00000144130	0	0	0	0	1	0

## ENSG00000169607	279	374	455	53	73	65
## ENSG00000115008	10	4	9	52	38	63
## ENSG00000125538	18	25	28	506	483	794
## ENSG00000125571	0	0	0	0	0	0
## ENSG00000136688	0	0	0	1	0	0
## ENSG00000136694	0	0	0	0	0	0
## ENSG00000136696	0	0	0	0	0	0
## ENSG00000136695	0	0	0	0	0	0
## ENSG00000136697	0	0	0	0	0	0
## ENSG00000136689	0	0	0	0	0	0
## ENSG00000125637	16	17	33	13	9	19
## ENSG00000125618	25	28	41	29	19	26
## ENSG00000136682	152	186	178	132	169	225
## ENSG00000184492	1	0	1	2	0	0
## ENSG00000144134	39	44	42	83	74	95
## ENSG00000115084	1235	1498	1804	2172	2352	2814
## ENSG00000115091	6926	8469	10274	6715	7831	8973
## ENSG00000175497	0	0	0	0	0	0
## ENSG00000088205	933	1122	1407	1063	1308	1352
## ENSG00000125633	488	563	732	613	656	800
## ENSG00000125629	196	217	259	255	279	343
## ENSG00000163064	0	0	0	1	0	0
## ENSG00000019169	0	0	0	0	0	0
## ENSG00000144119	0	0	0	0	0	1
## ENSG00000115107	902	973	1363	646	695	875
## ENSG00000186132	46	66	66	33	48	68
## ENSG00000155368	884	1009	1216	978	1005	1131
## ENSG00000171227	0	0	5	1	3	0
## ENSG00000080293	0	0	0	0	0	0
## ENSG00000163075	0	1	0	0	0	0
## ENSG00000144120	71	56	102	50	57	73
## ENSG00000088179	165	210	221	162	186	182
## ENSG00000115109	597	697	818	1337	1553	1857
## ENSG00000226479	398	474	602	467	503	641
## ENSG00000144118	1167	1356	1646	1095	1234	1481
## ENSG00000281676	0	0	0	0	1	0
## ENSG00000163083	0	5	8	2	2	1
## ENSG00000074047	567	713	915	572	573	704
## ENSG00000115112	0	0	0	0	0	0
## ENSG00000074054	1154	1463	1725	1753	1926	2280
## ENSG00000155438	377	450	561	445	446	597
## ENSG00000211460	980	1109	1368	927	1040	1144
## ENSG00000155052	0	0	0	0	0	0
## ENSG00000136732	551	620	713	610	640	753
## ENSG00000136717	388	444	521	462	543	636
## ENSG00000186684	0	0	2	3	1	3
## ENSG00000163161	605	631	830	791	893	1054
## ENSG00000169967	614	710	833	1139	1215	1593
## ENSG00000115718	1	2	4	2	3	2
## ENSG00000163166	840	879	1211	983	1108	1354
## ENSG00000169994	6	4	12	3	0	6
## ENSG00000072163	360	420	571	92	131	121
## ENSG00000144230	3	3	1	0	0	0
## ENSG00000136709	616	694	914	700	784	948

## ENSG00000173349	0	0	0	0	0	0
## ENSG00000144231	530	556	719	510	485	591
## ENSG00000144233	561	602	686	711	766	886
## ENSG00000136715	405	466	679	494	482	531
## ENSG00000136731	2930	3378	3984	2444	2723	3097
## ENSG00000136720	865	1009	1209	1683	1875	2202
## ENSG00000222014	3	2	3	2	2	2
## ENSG00000196604	12	6	9	2	3	4
## ENSG00000152076	9	17	24	14	6	16
## ENSG00000136699	1079	1311	1744	470	550	521
## ENSG00000152082	329	395	508	296	326	430
## ENSG00000152086	2	1	0	2	0	0
## ENSG00000136710	208	240	267	286	299	387
## ENSG00000136718	688	799	1055	764	790	1000
## ENSG00000072135	216	239	310	317	345	399
## ENSG00000196834	2	3	9	2	1	1
## ENSG00000152093	0	0	0	0	0	0
## ENSG00000184761	0	0	0	0	0	0
## ENSG00000183292	0	0	0	0	0	0
## ENSG00000136698	0	0	0	0	0	0
## ENSG00000222038	1	0	7	0	2	1
## ENSG00000173302	0	0	0	0	0	0
## ENSG00000178171	0	0	0	0	0	0
## ENSG00000136002	27	32	50	20	30	34
## ENSG00000152102	2626	3080	3700	3519	4076	4617
## ENSG00000115762	2357	2757	3342	3319	3638	4382
## ENSG00000188219	7	14	18	4	10	6
## ENSG00000173272	291	320	407	212	249	292
## ENSG00000075886	4	1	4	2	1	3
## ENSG00000163040	39	37	62	33	49	43
## ENSG00000163046	0	0	0	0	0	0
## ENSG00000183840	41	35	48	7	10	16
## ENSG00000150551	333	416	485	908	980	1167
## ENSG00000176771	283	357	426	766	857	1073
## ENSG00000152127	3230	3850	4778	6727	6974	8106
## ENSG00000152128	0	0	1	0	2	0
## ENSG00000153086	1	0	0	0	5	0
## ENSG00000082258	359	389	505	691	777	958
## ENSG00000176601	1	0	1	0	0	0
## ENSG00000115839	1364	1588	1986	931	1183	1223
## ENSG00000121988	56	63	80	39	61	40
## ENSG00000048991	670	723	883	508	562	730
## ENSG00000144224	1733	1859	2305	2472	2979	3535
## ENSG00000115850	1	0	2	0	1	0
## ENSG00000076003	461	555	752	130	172	156
## ENSG00000115866	614	756	867	640	696	741
## ENSG00000121966	0	0	0	1	0	1
## ENSG00000144229	0	0	0	0	0	0
## ENSG00000150540	84	90	106	37	47	49
## ENSG00000144228	264	262	391	424	504	612
## ENSG00000144227	0	0	0	0	0	0
## ENSG00000168702	6	9	1	65	53	86
## ENSG00000115919	34	39	52	550	538	871
## ENSG00000075884	0	0	0	0	1	2

## ENSG00000121964	149	229	255	143	178	187
## ENSG00000169554	916	1103	1456	945	1077	1244
## ENSG00000121989	95	80	101	128	120	153
## ENSG00000115947	209	254	321	314	324	405
## ENSG00000204406	249	306	365	436	527	588
## ENSG00000135999	245	294	374	431	481	514
## ENSG00000168280	4	4	7	8	14	14
## ENSG00000150556	0	2	2	0	1	1
## ENSG00000187123	8	13	20	2	8	7
## ENSG00000168288	1292	1545	1811	2170	2484	2943
## ENSG00000115963	4752	5435	6660	19106	20260	27190
## ENSG00000184898	126	126	163	140	166	181
## ENSG00000123609	77	97	113	57	70	79
## ENSG00000123610	64	65	81	433	368	765
## ENSG00000080345	937	980	1293	1521	1596	1922
## ENSG00000183091	4	3	8	5	11	6
## ENSG00000162980	655	736	991	1021	1053	1397
## ENSG00000182389	5	8	9	3	6	8
## ENSG00000115145	627	834	961	513	628	652
## ENSG00000157827	463	646	800	776	931	1158
## ENSG00000196504	1611	1961	2380	1805	2233	2561
## ENSG00000177917	159	203	229	185	205	244
## ENSG00000177519	0	0	0	1	1	2
## ENSG00000144278	0	0	1	1	2	0
## ENSG00000162989	0	0	0	0	0	0
## ENSG00000153234	38	58	78	1112	1161	1658
## ENSG00000115159	679	726	957	600	701	792
## ENSG00000136542	3748	4445	5431	4448	5472	5219
## ENSG00000136541	1	0	3	1	4	4
## ENSG00000115165	0	0	0	0	0	0
## ENSG00000123612	3	6	7	8	11	5
## ENSG00000115170	883	947	1334	1374	1595	1907
## ENSG00000007001	1	0	0	0	0	1
## ENSG00000153237	2	2	2	3	2	3
## ENSG00000144283	511	620	783	300	359	360
## ENSG00000281472	0	0	0	0	0	0
## ENSG00000163331	0	0	0	0	0	0
## ENSG00000115183	726	812	986	691	696	800
## ENSG00000196151	63	57	84	65	61	79
## ENSG00000123636	304	293	378	622	705	828
## ENSG00000136536	1225	1628	2035	1357	1863	2008
## ENSG00000241399	31	27	49	27	33	50
## ENSG00000248672	0	0	0	0	0	0
## ENSG00000054219	0	0	0	0	0	1
## ENSG00000153246	27	33	45	42	49	65
## ENSG00000115221	3	2	4	1	5	4
## ENSG00000153250	893	1035	1267	1817	2118	2337
## ENSG00000136560	359	443	504	561	610	801
## ENSG00000115233	1212	1456	1753	1140	1257	1435
## ENSG00000136535	0	0	1	2	0	0
## ENSG00000144290	0	0	0	0	0	0
## ENSG00000197635	923	984	1227	1571	1814	2034
## ENSG00000115263	0	0	0	0	0	0
## ENSG00000078098	1098	1247	1511	1425	1762	1888

## ENSG00000115267	27	30	34	21	38	27
## ENSG00000115271	13	19	18	9	11	15
## ENSG00000184611	0	0	0	0	0	0
## ENSG00000182263	69	85	106	48	49	43
## ENSG00000115290	0	0	0	0	1	0
## ENSG00000082438	48	43	59	26	44	34
## ENSG00000169507	2	2	4	5	7	5
## ENSG00000153253	11	12	18	12	20	21
## ENSG00000136531	50	75	90	138	142	162
## ENSG00000178662	6	4	7	5	3	4
## ENSG00000115339	80	79	108	26	29	25
## ENSG00000123607	205	225	284	238	249	313
## ENSG00000144285	0	0	0	0	0	0
## ENSG00000169432	2542	2910	3536	1258	1580	1571
## ENSG00000136546	23	23	19	9	10	7
## ENSG00000163092	17	15	18	20	31	22
## ENSG00000172318	53	71	59	122	144	174
## ENSG00000198648	929	1080	1371	1036	1228	1393
## ENSG00000172292	138	207	268	160	195	213
## ENSG00000163072	7	12	7	0	2	2
## ENSG00000152253	74	99	124	19	12	7
## ENSG00000152254	0	0	0	0	0	0
## ENSG00000073734	0	0	0	0	0	0
## ENSG00000073737	0	0	0	0	0	0
## ENSG000000081479	0	0	0	0	0	0
## ENSG00000163093	58	80	98	107	113	117
## ENSG00000251569	0	0	0	0	0	0
## ENSG00000239474	4	2	3	2	0	0
## ENSG00000138399	152	159	199	185	238	281
## ENSG00000138398	637	748	1003	803	918	1120
## ENSG00000154479	0	0	2	1	2	1
## ENSG00000144362	4	3	8	5	7	9
## ENSG00000213160	37	56	55	48	48	53
## ENSG00000138385	1240	1544	1754	1464	1701	1951
## ENSG00000138382	221	302	353	143	189	186
## ENSG00000144357	1070	1243	1460	1142	1255	1438
## ENSG00000071909	0	0	1	1	3	1
## ENSG00000204335	0	0	0	0	0	0
## ENSG00000204334	0	0	1	0	0	0
## ENSG00000128683	0	1	0	2	4	2
## ENSG00000115806	1911	2144	2783	2014	2355	2595
## ENSG00000198586	587	672	950	659	843	864
## ENSG00000123600	195	206	264	179	216	207
## ENSG00000115827	221	282	343	169	185	257
## ENSG00000071967	2027	2239	2839	2144	2481	2641
## ENSG00000077380	1765	2127	2640	2526	2898	3395
## ENSG00000115840	302	366	442	170	228	197
## ENSG00000128708	430	583	653	429	485	593
## ENSG00000172878	71	59	86	41	47	63
## ENSG00000144355	19	33	24	20	16	32
## ENSG00000115844	7	13	17	30	28	27
## ENSG00000091409	2964	3329	4502	1420	1560	1772
## ENSG00000152256	512	651	755	521	658	716
## ENSG00000091428	53	70	103	247	298	361



## ENSG00000091436	2690	3550	3974	2202	2464	2734
## ENSG00000144354	107	104	178	14	33	34
## ENSG00000172845	855	989	1255	823	947	1127
## ENSG00000138430	930	1028	1255	625	767	812
## ENSG00000217236	0	0	0	0	0	0
## ENSG00000138433	378	428	510	516	553	664
## ENSG00000144306	180	214	292	151	155	180
## ENSG00000163328	192	190	203	99	158	155
## ENSG00000115935	395	485	533	259	352	386
## ENSG00000138435	37	53	51	44	40	58
## ENSG00000128656	1056	1286	1501	1909	2371	2397
## ENSG00000115966	521	522	650	988	1029	1363
## ENSG00000154518	1765	2057	2552	1885	2130	2511
## ENSG00000144320	845	1031	1264	346	420	463
## ENSG00000174279	0	0	0	0	0	0
## ENSG00000128714	0	0	0	0	0	0
## ENSG00000170178	0	0	0	0	0	0
## ENSG00000128713	0	0	0	0	0	0
## ENSG00000128710	0	0	0	1	0	1
## ENSG00000128709	0	0	0	0	0	0
## ENSG00000175879	1	0	0	0	0	0
## ENSG00000128652	0	0	0	0	0	0
## ENSG00000278500	0	0	0	0	0	0
## ENSG00000170166	0	0	0	0	0	0
## ENSG00000128645	0	0	0	0	0	0
## ENSG00000128654	285	336	386	353	370	430
## ENSG00000170144	3826	4449	5596	4175	4735	5543
## ENSG00000116044	1279	1482	1742	2041	2326	2811
## ENSG00000018510	650	814	1075	975	1168	1394
## ENSG00000196659	47	53	59	51	60	82
## ENSG00000197557	80	63	87	87	111	140
## ENSG00000128655	22	15	21	3	9	5
## ENSG00000155636	154	156	217	125	190	190
## ENSG00000079156	162	184	290	313	327	408
## ENSG00000180228	440	529	652	507	581	707
## ENSG00000204311	8	2	6	9	8	20
## ENSG00000079150	519	604	749	1205	1344	1597
## ENSG00000116095	280	323	340	550	655	775
## ENSG00000155657	66	77	74	63	91	95
## ENSG00000163492	0	0	0	0	0	0
## ENSG00000187231	213	249	316	616	669	795
## ENSG00000144331	0	0	0	0	2	0
## ENSG00000163510	283	350	409	355	381	452
## ENSG00000170035	1055	1392	1777	2332	2564	3167
## ENSG00000115232	621	709	954	406	436	493
## ENSG00000188452	116	140	171	74	95	96
## ENSG00000162992	0	0	0	0	0	0
## ENSG00000138434	4586	5479	6864	5250	6162	6759
## ENSG00000150722	3	1	9	2	5	5
## ENSG00000115252	4	7	2	14	9	19
## ENSG00000077232	2388	2777	3332	2569	2855	3377
## ENSG00000162998	27	30	42	91	147	153
## ENSG00000061676	4095	4649	6099	4410	5072	5892
## ENSG00000162999	24	17	22	14	18	20

## ENSG00000163002	113	149	158	99	89	133
## ENSG00000170396	154	190	279	261	265	386
## ENSG00000188738	0	2	0	1	2	3
## ENSG00000065548	981	1135	1445	1066	1268	1464
## ENSG00000281192	0	0	0	0	1	0
## ENSG00000138448	5014	5673	7264	6387	7404	8762
## ENSG00000144369	375	428	554	368	427	524
## ENSG00000163012	0	1	1	0	0	0
## ENSG00000064989	17	13	20	3	2	5
## ENSG00000003436	1549	1895	2213	5257	5837	7444
## ENSG00000144366	420	416	580	761	777	978
## ENSG00000174325	1	0	0	3	0	3
## ENSG00000168542	28859	29805	39491	82992	96893	114395
## ENSG00000204262	14074	15617	19930	26910	31315	35842
## ENSG00000115368	423	484	614	481	539	564
## ENSG00000138449	57	84	79	33	42	47
## ENSG00000138381	576	726	778	471	545	582
## ENSG00000151687	14	6	18	14	11	16
## ENSG00000128694	57	70	74	66	80	86
## ENSG00000128699	372	375	452	474	550	652
## ENSG00000064933	159	180	254	168	185	226
## ENSG00000187699	9	4	5	2	8	2
## ENSG00000138379	1	0	0	1	0	2
## ENSG00000198130	198	255	269	263	277	315
## ENSG00000151689	261	283	341	453	481	567
## ENSG00000151690	203	223	302	222	244	300
## ENSG00000189362	49	46	52	22	25	42
## ENSG00000138386	397	421	511	379	476	552
## ENSG00000115419	2828	3422	4162	2098	2418	2768
## ENSG00000115415	2600	2886	3681	5305	6225	6985
## ENSG00000138378	6	3	5	3	6	9
## ENSG00000128641	2653	3023	3919	2422	3220	3466
## ENSG00000173559	1944	1983	2527	2052	2359	2791
## ENSG00000168497	181	208	269	68	75	84
## ENSG00000144339	42	34	53	61	76	136
## ENSG00000196950	621	746	845	519	636	755
## ENSG00000118997	6	5	2	5	6	16
## ENSG00000081320	705	816	1020	908	1055	1214
## ENSG00000138411	106	117	129	78	97	86
## ENSG00000144395	22	21	39	2	13	10
## ENSG00000119041	385	429	537	383	535	515
## ENSG00000187944	0	4	2	2	6	7
## ENSG00000197121	209	239	307	132	174	182
## ENSG00000065413	121	154	179	293	338	375
## ENSG00000115524	3723	4002	5396	4406	5542	5948
## ENSG00000115520	549	735	848	1367	1527	1833
## ENSG00000144381	4338	4795	6226	4506	4697	5581
## ENSG00000115541	282	349	404	441	471	617
## ENSG00000270757	0	0	0	0	0	0
## ENSG00000115540	305	440	498	196	242	265
## ENSG00000162944	65	52	77	215	244	281
## ENSG00000247626	120	74	133	239	200	286
## ENSG00000152430	0	1	0	0	0	0
## ENSG00000115896	9	9	15	12	11	18

## ENSG00000119042	261	291	356	160	157	198
## ENSG00000226124	2	1	4	0	0	1
## ENSG00000178074	319	366	430	480	565	601
## ENSG00000162971	97	115	145	101	110	119
## ENSG00000162972	163	178	227	183	175	179
## ENSG00000196141	3580	4294	5452	3649	4126	4559
## ENSG00000155729	159	181	248	190	235	259
## ENSG00000163535	325	382	487	136	141	163
## ENSG00000138356	423	460	606	125	148	162
## ENSG00000280298	0	0	0	0	0	0
## ENSG00000082153	3836	4579	5844	4004	4739	5536
## ENSG00000013441	312	190	299	515	487	565
## ENSG00000240344	168	172	194	103	105	129
## ENSG00000196290	175	219	265	183	217	207
## ENSG00000115942	232	233	306	232	297	317
## ENSG00000155744	167	215	243	324	375	458
## ENSG00000119013	352	417	499	410	435	445
## ENSG00000003402	620	759	862	1081	1223	1378
## ENSG00000003400	1	1	3	0	1	3
## ENSG00000064012	170	172	222	113	158	179
## ENSG00000155749	7	6	4	10	8	12
## ENSG00000115993	1917	2157	2669	2084	2381	2771
## ENSG00000082146	383	455	559	275	360	376
## ENSG00000155754	4	4	11	2	3	5
## ENSG00000155755	517	597	710	337	391	431
## ENSG00000082126	115	146	185	30	56	52
## ENSG00000003393	742	738	961	728	834	889
## ENSG00000138395	209	204	280	70	101	90
## ENSG00000155760	2542	3017	3888	2324	2786	3040
## ENSG00000182329	8	5	7	0	4	1
## ENSG00000116030	1231	1494	1801	1689	1855	2291
## ENSG00000055044	736	971	1084	687	783	933
## ENSG00000204217	1842	2326	2537	2181	2484	2835
## ENSG00000138439	80	89	120	547	567	804
## ENSG00000163596	47	70	65	56	58	71
## ENSG00000138442	367	421	556	600	641	780
## ENSG00000138380	44	59	72	54	59	79
## ENSG00000144426	461	532	590	766	836	947
## ENSG00000119004	304	358	446	481	467	596
## ENSG00000138443	714	805	973	1067	1179	1411
## ENSG00000173166	130	176	208	89	87	116
## ENSG00000178562	0	0	0	0	0	0
## ENSG00000163599	0	0	0	0	0	0
## ENSG00000163600	0	0	0	0	0	0
## ENSG00000116117	332	382	472	192	238	253
## ENSG00000118257	1289	1347	1717	1268	1639	1551
## ENSG00000114933	162	144	186	270	277	306
## ENSG00000023228	1662	1971	2387	1907	2076	2344
## ENSG00000114942	4281	5008	5969	4162	4768	5201
## ENSG00000183671	26	21	29	2	4	1
## ENSG00000204186	229	234	264	182	209	252
## ENSG00000279921	0	0	0	0	0	0
## ENSG00000114948	461	585	699	477	510	590
## ENSG00000232125	0	0	0	0	0	0

## ENSG00000138400	2	4	2	2	6	10
## ENSG00000118246	402	461	591	370	474	557
## ENSG00000144410	0	0	0	1	0	0
## ENSG00000118263	731	788	898	1054	1246	1347
## ENSG00000118260	493	531	671	526	615	662
## ENSG00000144401	72	74	107	85	78	128
## ENSG00000163249	332	385	502	325	350	395
## ENSG00000163251	9	4	6	9	19	19
## ENSG00000178385	57	88	90	98	96	123
## ENSG00000118231	0	0	0	0	0	0
## ENSG00000163254	0	0	0	0	0	0
## ENSG00000182187	0	0	0	0	0	0
## ENSG00000168582	0	0	0	0	0	0
## ENSG00000188674	0	0	0	0	0	0
## ENSG00000138413	868	1001	1199	1317	1530	1754
## ENSG00000115020	806	823	958	1093	1215	1408
## ENSG00000144407	0	0	0	0	0	0
## ENSG00000078018	14	22	28	15	24	30
## ENSG00000144406	0	0	0	0	1	1
## ENSG00000197713	615	693	846	575	692	833
## ENSG00000144445	66	64	75	159	192	269
## ENSG00000115361	0	0	0	0	0	0
## ENSG00000279317	0	0	0	0	0	0
## ENSG00000168530	0	0	0	0	0	0
## ENSG00000115365	576	732	866	266	352	333
## ENSG00000021826	116	146	143	109	157	174
## ENSG00000178568	2	0	1	1	3	2
## ENSG00000030419	119	150	162	55	82	65
## ENSG00000144451	135	126	164	94	100	112
## ENSG00000174453	0	0	0	0	0	0
## ENSG00000138376	98	118	150	23	28	25
## ENSG00000144452	5	6	6	6	8	7
## ENSG00000138363	1099	1211	1552	1110	1251	1474
## ENSG00000115414	389976	425502	542186	313941	370636	352612
## ENSG00000118242	47	57	96	24	29	28
## ENSG00000115425	44	48	59	21	26	34
## ENSG00000163449	9	18	15	11	19	17
## ENSG00000079246	4462	5279	6654	5686	6272	7482
## ENSG00000144583	930	1078	1427	431	547	523
## ENSG00000138375	427	488	636	374	470	443
## ENSG00000197756	5289	5749	7030	5384	6038	6635
## ENSG00000115457	1324	1356	1803	1859	2115	2246
## ENSG00000115461	97338	108004	130564	273720	287991	352844
## ENSG00000118245	0	0	0	0	0	0
## ENSG00000278951	0	0	0	0	0	0
## ENSG00000231672	28	28	44	64	54	81
## ENSG00000079308	4236	4993	6095	1971	2593	2452
## ENSG00000188282	0	0	0	0	0	0
## ENSG00000180871	0	0	0	0	0	0
## ENSG00000163464	0	0	0	0	0	0
## ENSG00000163466	6722	7904	9915	4095	4840	5212
## ENSG00000179921	2	3	0	1	3	5
## ENSG00000127837	1195	1241	1633	1560	1583	1918
## ENSG00000127838	372	389	539	364	381	473

## ENSG00000135926	1616	1719	2282	488	606	653
## ENSG00000158428	0	0	0	0	0	0
## ENSG00000018280	2	0	2	0	2	2
## ENSG00000144579	784	841	1077	300	321	401
## ENSG00000127831	0	0	0	0	0	1
## ENSG00000135913	85	116	107	141	154	200
## ENSG00000144580	646	804	984	528	615	753
## ENSG00000115556	43	51	49	53	53	55
## ENSG00000115568	272	325	475	305	353	435
## ENSG00000074582	198	248	309	162	201	231
## ENSG00000163481	330	403	497	383	436	544
## ENSG00000163482	171	236	325	447	526	568
## ENSG00000135912	283	319	438	277	256	385
## ENSG00000135929	54	63	67	147	140	201
## ENSG00000115592	0	0	0	0	0	0
## ENSG00000115596	0	0	0	0	0	0
## ENSG00000135925	0	0	0	0	1	0
## ENSG00000171450	2	3	0	2	2	1
## ENSG00000163497	0	0	0	0	0	0
## ENSG00000163499	0	0	0	0	0	0
## ENSG00000181378	0	0	0	0	0	0
## ENSG00000163501	0	0	0	0	0	0
## ENSG00000187736	2	3	3	1	1	4
## ENSG00000280537	3	1	2	3	1	1
## ENSG00000213901	2	0	2	1	1	0
## ENSG00000115649	453	508	631	494	543	610
## ENSG00000144567	1055	1159	1523	1462	1533	1874
## ENSG00000158552	205	204	269	167	196	278
## ENSG00000115657	18	12	24	27	20	25
## ENSG00000198925	1146	1299	1717	2153	2292	2800
## ENSG00000163516	162	178	226	289	310	342
## ENSG00000163521	66	69	85	88	95	109
## ENSG00000115661	219	241	295	253	251	334
## ENSG00000127824	203	214	273	96	108	115
## ENSG00000243910	1	0	0	0	0	1
## ENSG00000135924	940	1000	1238	827	910	1004
## ENSG00000054356	647	746	953	777	804	1183
## ENSG00000182698	0	0	0	0	0	0
## ENSG00000123992	433	492	617	737	759	1049
## ENSG00000175084	6	12	7	2	3	1
## ENSG00000072195	813	767	1061	313	398	408
## ENSG00000144591	694	777	1069	681	834	810
## ENSG00000072182	0	0	0	0	1	1
## ENSG00000123989	2469	2840	3512	1743	2027	2324
## ENSG00000188760	16	13	23	42	45	58
## ENSG00000124006	574	587	786	767	820	1053
## ENSG00000123999	6	5	0	4	2	3
## ENSG00000144589	199	196	280	242	309	361
## ENSG00000114923	82	82	126	82	79	108
## ENSG00000116106	725	676	930	1005	1082	1245
## ENSG00000135903	0	1	0	0	0	0
## ENSG00000163081	0	0	0	0	0	0
## ENSG00000163082	3	8	12	4	4	3
## ENSG00000116120	855	882	1171	457	612	630

## ENSG00000124003	0	0	0	0	0	0
## ENSG00000123983	1466	1630	1958	1960	2190	2543
## ENSG00000152049	75	94	119	515	545	761
## ENSG00000171951	143	164	204	1415	1355	1756
## ENSG00000152056	56	61	78	28	34	32
## ENSG00000085449	1256	1554	1692	1735	1923	2493
## ENSG00000135900	272	318	416	383	401	491
## ENSG00000135919	4845	5835	7081	12578	13906	18519
## ENSG00000124019	0	2	0	0	0	0
## ENSG00000036257	1060	1215	1489	1149	1376	1589
## ENSG00000135905	1495	1718	2054	1085	1322	1414
## ENSG00000144460	0	0	0	0	1	0
## ENSG00000169047	2786	3178	4195	3503	4045	4422
## ENSG00000144468	413	447	567	353	353	434
## ENSG00000081052	2	1	1	0	1	2
## ENSG00000169031	1	0	0	0	3	3
## ENSG00000168958	598	743	878	843	924	1124
## ENSG00000168955	1	1	0	2	0	0
## ENSG00000173744	1088	1231	1591	1195	1498	1776
## ENSG00000042304	0	0	0	0	0	0
## ENSG00000135917	0	0	0	0	0	0
## ENSG00000115009	0	1	1	1	0	2
## ENSG00000123977	9	8	18	7	2	2
## ENSG00000153820	0	1	1	1	1	0
## ENSG00000153823	61	72	62	53	62	78
## ENSG00000187957	20	21	30	56	35	72
## ENSG00000153827	4319	5026	6097	5244	5710	6849
## ENSG00000153832	32	33	39	16	39	51
## ENSG00000163053	28	27	36	118	129	156
## ENSG00000135899	32	44	53	55	72	69
## ENSG00000280755	0	0	0	0	0	0
## ENSG00000079263	26	25	20	32	34	32
## ENSG00000185404	298	317	396	170	215	208
## ENSG00000067066	808	943	1126	1089	1210	1454
## ENSG00000135932	1353	1657	2031	1169	1399	1633
## ENSG00000135916	3030	3355	4255	4356	4802	5669
## ENSG00000135898	2	4	4	0	1	0
## ENSG00000173699	0	0	0	0	0	0
## ENSG00000204128	1	0	0	0	1	1
## ENSG00000173692	2604	3051	3918	2666	2977	3550
## ENSG00000135914	14	19	17	8	10	9
## ENSG00000135931	634	674	850	1291	1608	1699
## ENSG00000156966	2	0	1	2	1	1
## ENSG00000115053	7755	8951	11198	8162	9004	10230
## ENSG00000171596	0	0	0	0	0	0
## ENSG00000177673	0	0	0	0	0	0
## ENSG00000187514	5710	6899	7937	8052	8401	10478
## ENSG00000156973	141	190	219	230	259	320
## ENSG00000144524	398	441	651	410	491	625
## ENSG00000163273	5	17	15	74	59	89
## ENSG00000144535	241	276	376	285	286	332
## ENSG00000163283	0	0	0	0	0	0
## ENSG00000163286	0	0	0	0	0	0
## ENSG00000163295	0	0	0	0	0	0

## ENSG00000171551	0	2	0	1	1	1
## ENSG00000237412	0	0	0	0	0	0
## ENSG00000135902	0	0	0	0	0	0
## ENSG00000196811	0	1	1	1	0	0
## ENSG00000221944	34	34	53	49	46	44
## ENSG00000135930	925	1121	1330	785	958	1035
## ENSG00000115468	10	7	7	7	10	6
## ENSG00000204120	1043	1098	1339	1313	1421	1765
## ENSG00000115474	0	0	1	0	1	0
## ENSG00000182600	3	4	7	11	7	11
## ENSG00000066248	8	10	13	11	13	20
## ENSG00000115488	0	0	0	0	0	0
## ENSG00000168918	6	5	7	40	31	49
## ENSG00000085978	383	426	531	429	472	587
## ENSG00000130561	0	0	0	0	0	0
## ENSG00000077044	286	318	397	383	429	515
## ENSG00000085982	574	648	819	531	650	687
## ENSG00000242366	0	0	0	0	0	0
## ENSG00000242515	0	0	0	0	0	0
## ENSG00000241119	0	0	0	0	0	0
## ENSG00000244122	0	0	0	0	0	0
## ENSG00000167165	0	0	0	0	0	0
## ENSG00000240224	0	0	0	0	0	0
## ENSG00000244474	0	0	0	0	0	0
## ENSG00000243135	0	0	0	0	0	0
## ENSG00000241635	0	0	0	0	0	0
## ENSG00000185038	0	0	0	0	0	1
## ENSG00000123485	327	433	535	57	88	86
## ENSG00000144481	1	1	1	0	0	0
## ENSG00000072080	0	0	0	0	0	0
## ENSG00000188042	878	1144	1380	869	1140	1132
## ENSG00000130147	3927	4492	5790	4391	4934	5677
## ENSG00000157985	452	511	658	1268	1260	1715
## ENSG00000168505	0	0	2	0	0	0
## ENSG00000182177	0	0	0	0	0	0
## ENSG00000132321	0	0	0	0	0	0
## ENSG00000144476	0	1	0	0	0	2
## ENSG00000198612	815	1012	1185	739	842	942
## ENSG00000163359	119358	131725	165738	135716	152538	166112
## ENSG00000115648	266	279	354	610	635	825
## ENSG00000071677	0	0	0	0	0	0
## ENSG00000124839	0	3	0	2	2	1
## ENSG00000124831	1915	2218	2707	1324	1490	1661
## ENSG00000177483	2	5	4	5	5	4
## ENSG00000132329	162	185	238	99	117	142
## ENSG00000184182	230	244	304	139	186	226
## ENSG00000258984	1	0	0	1	1	0
## ENSG00000132330	20	16	20	23	34	33
## ENSG00000144488	61	64	93	38	43	33
## ENSG00000168427	1	1	1	1	0	1
## ENSG00000178752	45	59	80	16	38	30
## ENSG00000132323	240	254	360	259	277	295
## ENSG00000144485	21	14	28	47	51	62
## ENSG00000132326	90	107	122	68	78	88

## ENSG00000204104	322	315	380	435	495	569
## ENSG00000065802	975	1137	1320	1700	1822	2081
## ENSG00000233608	235	263	358	309	319	354
## ENSG00000068024	162	156	198	152	141	177
## ENSG00000280260	0	0	0	0	0	0
## ENSG00000130414	967	1048	1411	815	1068	1184
## ENSG00000182083	0	0	0	0	0	0
## ENSG00000221961	0	0	0	0	0	0
## ENSG00000178586	0	0	0	0	0	0
## ENSG00000172428	358	418	510	420	400	510
## ENSG00000178602	0	1	0	0	0	0
## ENSG00000063660	6956	7622	10361	10882	11501	13226
## ENSG00000144504	42	63	59	44	58	73
## ENSG00000188542	25	21	30	37	38	51
## ENSG00000142327	689	803	1027	907	929	1172
## ENSG00000142330	195	239	297	421	378	530
## ENSG00000178623	1	4	3	7	6	6
## ENSG00000185176	0	0	0	0	0	0
## ENSG00000184945	0	0	0	0	0	0
## ENSG00000130294	5	1	1	7	5	15
## ENSG00000172482	0	0	0	0	0	0
## ENSG00000172478	0	0	0	0	0	1
## ENSG00000226321	0	0	0	1	1	0
## ENSG00000162804	205	255	299	383	457	504
## ENSG00000122085	255	245	375	325	350	404
## ENSG00000115687	36	52	67	131	118	149
## ENSG00000115685	818	969	1122	924	1078	1238
## ENSG00000146205	19	34	51	61	69	90
## ENSG00000115677	20260	22566	28842	19783	22113	24763
## ENSG00000168385	7600	8637	10926	9571	11061	12695
## ENSG00000006607	535	648	712	696	797	955
## ENSG00000115694	1639	1731	2466	941	1129	1242
## ENSG00000176720	622	688	859	616	618	691
## ENSG00000176946	521	618	795	461	520	632
## ENSG00000168397	590	666	838	860	983	1126
## ENSG00000168393	409	519	671	226	254	301
## ENSG00000168395	162	142	187	184	201	227
## ENSG00000180902	185	171	226	158	170	201
## ENSG00000154252	0	1	0	0	3	1
## ENSG00000204099	0	0	0	0	1	1
## ENSG00000188389	0	0	0	0	0	0
## ENSG00000188011	0	0	0	0	0	0
## ENSG00000134121	97	115	116	198	212	272
## ENSG00000134115	0	0	0	0	0	0
## ENSG00000144619	2	2	2	27	28	37
## ENSG00000091181	0	0	0	0	0	0
## ENSG00000072756	257	293	351	277	299	381
## ENSG00000281584	1	2	0	1	2	1
## ENSG00000113851	187	217	273	287	347	357
## ENSG00000144455	371	445	608	619	599	717
## ENSG00000175928	20	38	33	12	18	14
## ENSG00000170364	95	98	110	81	109	121
## ENSG00000150995	120	134	155	115	112	138
## ENSG00000134107	420	466	617	457	537	630



## ENSG00000134108	1059	1223	1564	1902	2194	2624
## ENSG00000134109	1500	1781	2109	1888	2230	2641
## ENSG00000196277	0	0	0	0	0	0
## ENSG00000071282	197	205	258	88	121	119
## ENSG00000125046	0	0	1	1	0	0
## ENSG00000182533	0	1	1	0	0	0
## ENSG00000180914	793	794	1076	269	380	323
## ENSG00000070950	232	311	388	99	97	127
## ENSG00000196220	8	5	4	23	19	24
## ENSG00000134077	338	377	444	327	431	463
## ENSG00000168137	1322	1531	1688	1774	1924	2066
## ENSG00000156959	1	1	0	1	0	1
## ENSG00000163719	372	371	497	460	522	655
## ENSG00000144550	0	0	0	0	0	1
## ENSG00000156983	345	302	461	440	491	524
## ENSG00000114026	174	195	231	146	168	229
## ENSG00000134072	85	83	101	56	62	69
## ENSG00000171148	1029	1157	1524	1457	1540	1859
## ENSG00000241553	1149	1328	1636	1307	1414	1689
## ENSG00000250151	0	0	0	0	0	0
## ENSG00000214021	62	64	87	91	105	129
## ENSG00000156990	281	300	408	280	264	313
## ENSG00000187288	0	0	0	0	0	0
## ENSG00000171135	313	321	456	350	410	478
## ENSG00000163701	32	41	55	7	5	9
## ENSG00000163702	266	314	407	385	381	447
## ENSG00000163703	226	229	328	411	400	507
## ENSG00000163704	128	128	191	93	121	136
## ENSG00000125037	653	776	907	965	1100	1337
## ENSG00000144554	174	234	294	55	73	54
## ENSG00000163705	0	0	0	0	0	0
## ENSG00000254999	1850	2180	2679	2441	2727	3231
## ENSG00000134086	494	489	602	1052	1152	1429
## ENSG00000134070	159	193	222	331	328	448
## ENSG00000157014	356	471	555	274	283	345
## ENSG00000272410	0	0	0	0	0	0
## ENSG00000157017	4	3	0	1	0	2
## ENSG00000157020	2905	3224	4200	2603	2820	3141
## ENSG00000157087	0	1	2	0	1	0
## ENSG00000132164	0	0	0	0	0	0
## ENSG00000157103	0	0	0	0	0	0
## ENSG00000196639	299	301	371	170	187	162
## ENSG00000197548	432	472	535	332	375	462
## ENSG00000144560	264	301	390	352	352	407
## ENSG00000144559	93	128	139	86	105	139
## ENSG00000157152	6	4	7	0	4	2
## ENSG00000157150	7	5	10	2	5	4
## ENSG00000132170	288	377	413	251	280	312
## ENSG00000154743	71	72	108	58	71	80
## ENSG00000225526	0	1	1	0	1	0
## ENSG00000075975	651	751	1029	300	377	397
## ENSG00000132155	1649	1821	2518	1392	1619	1925
## ENSG00000088726	0	2	0	0	0	0
## ENSG00000144712	114	145	191	30	38	33

## ENSG00000144713	5627	6240	7874	5177	5924	6643
## ENSG00000144711	518	626	781	457	581	625
## ENSG00000132182	8	11	19	4	9	15
## ENSG00000163517	147	170	210	131	153	203
## ENSG00000163520	606	601	839	704	796	861
## ENSG00000154764	0	0	0	0	0	0
## ENSG00000180438	0	0	0	0	0	0
## ENSG00000163528	96	107	122	103	111	143
## ENSG00000170876	1410	1670	2147	1292	1531	1703
## ENSG00000268279	4	3	4	7	4	8
## ENSG00000154767	407	427	556	507	577	622
## ENSG00000170860	303	393	485	165	246	257
## ENSG00000131389	873	1061	1349	989	1077	1280
## ENSG00000144596	2	0	1	0	6	8
## ENSG00000154781	191	192	236	186	224	279
## ENSG00000131379	1	2	0	0	1	2
## ENSG00000154783	0	0	0	0	0	0
## ENSG00000177463	606	664	757	819	917	1120
## ENSG00000131368	259	320	385	384	425	505
## ENSG00000131381	508	593	744	581	674	677
## ENSG00000131375	455	519	675	515	595	699
## ENSG00000131370	91	93	135	103	120	140
## ENSG00000206562	137	153	217	188	223	230
## ENSG00000144597	226	281	340	537	623	673
## ENSG00000206561	2	1	1	5	8	7
## ENSG00000131373	101	147	212	207	258	287
## ENSG00000169814	160	186	202	237	230	247
## ENSG00000206560	1217	1410	1833	1192	1501	1525
## ENSG00000131386	219	253	306	154	208	195
## ENSG00000154813	851	877	1140	1056	1266	1401
## ENSG00000154814	81	83	111	56	87	67
## ENSG00000131378	1240	1458	1879	1748	2023	2153
## ENSG00000092345	0	0	0	0	0	0
## ENSG00000154822	31	43	54	42	73	67
## ENSG00000131374	688	778	1046	814	872	1031
## ENSG00000182568	206	249	288	316	354	427
## ENSG00000183960	0	0	0	0	0	1
## ENSG00000163576	2	1	2	2	6	5
## ENSG00000144566	848	994	1240	1345	1584	1826
## ENSG00000183977	3	4	0	3	5	5
## ENSG00000114166	147	175	224	83	98	91
## ENSG00000129810	46	69	78	16	7	11
## ENSG00000151789	17	24	31	59	57	63
## ENSG00000182247	255	327	373	190	265	296
## ENSG00000170142	879	1084	1353	1233	1389	1693
## ENSG00000197885	150	170	250	144	187	201
## ENSG00000174748	7588	8985	11073	8699	10020	11541
## ENSG00000174738	689	871	1144	1152	1373	1630
## ENSG00000151090	0	0	0	0	0	4
## ENSG00000077092	5	3	2	1	7	6
## ENSG00000077097	2144	2579	3031	2274	2879	3224
## ENSG00000151092	256	309	365	236	344	352
## ENSG00000151093	60	73	81	47	76	61
## ENSG00000179796	0	0	0	0	0	0

## ENSG00000163491	39	53	66	209	238	300
## ENSG00000033867	996	1265	1495	4610	5130	6432
## ENSG00000163508	0	0	0	2	0	0
## ENSG00000187118	103	130	132	132	140	178
## ENSG00000163512	332	336	486	371	458	528
## ENSG00000206559	11	10	10	6	5	9
## ENSG00000144642	410	493	662	280	433	431
## ENSG00000163513	5485	6485	8029	6060	6915	7875
## ENSG00000144644	0	0	0	0	0	0
## ENSG00000163527	2688	3065	4004	2766	3144	3640
## ENSG00000144645	172	198	220	229	249	297
## ENSG00000197385	3	4	7	3	2	4
## ENSG00000152642	149	166	248	112	152	114
## ENSG00000170293	1	1	1	2	1	8
## ENSG00000153551	254	280	408	407	419	530
## ENSG00000091317	1694	2055	2401	3381	3893	4640
## ENSG00000144635	751	921	1096	1147	1313	1649
## ENSG00000182973	199	228	233	161	179	254
## ENSG00000206557	0	0	0	1	0	0
## ENSG00000183813	0	0	0	0	0	1
## ENSG00000170266	1002	1139	1408	1870	1979	2429
## ENSG00000188167	29	29	30	72	71	86
## ENSG00000170275	2362	2630	3260	3286	3567	4227
## ENSG00000173705	200	229	298	137	167	227
## ENSG00000153558	176	188	222	99	116	136
## ENSG00000153560	1493	1685	2048	1999	2283	2700
## ENSG00000163539	502	582	713	491	562	586
## ENSG00000170248	2347	2757	3432	2791	3174	3568
## ENSG00000172995	0	2	0	0	0	0
## ENSG00000144681	7	8	5	0	4	2
## ENSG00000163673	0	0	0	0	0	0
## ENSG00000168016	244	215	287	189	257	257
## ENSG00000178567	548	568	778	764	886	1059
## ENSG00000076242	446	481	681	313	354	368
## ENSG00000093167	782	898	1133	649	642	770
## ENSG00000144674	3214	3304	4253	5254	5847	6518
## ENSG00000144668	12	6	10	8	12	14
## ENSG00000144677	559	636	761	644	745	857
## ENSG00000136059	39	35	48	29	43	31
## ENSG00000187091	168	197	281	229	251	306
## ENSG00000008226	2	0	1	1	2	2
## ENSG00000060971	353	418	517	392	417	514
## ENSG00000172936	563	616	782	988	1076	1373
## ENSG00000172939	1160	1350	1691	1016	1242	1406
## ENSG00000172940	0	1	0	1	0	0
## ENSG00000144671	1	0	0	1	1	2
## ENSG00000093217	55	59	91	44	61	52
## ENSG00000114739	34	47	49	537	503	689
## ENSG00000157036	213	280	310	183	200	230
## ENSG00000183873	112	107	164	142	161	152
## ENSG00000185313	0	0	1	0	0	1
## ENSG00000168356	0	0	0	0	0	0
## ENSG00000114742	422	479	576	588	752	815
## ENSG00000114745	646	742	941	608	687	799

## ENSG00000168026	9	11	19	28	33	27
## ENSG00000144655	332	421	541	506	701	687
## ENSG00000168334	6	7	7	2	0	0
## ENSG00000168329	0	0	1	0	0	0
## ENSG00000179934	0	0	0	0	0	0
## ENSG00000144659	341	398	502	579	607	751
## ENSG00000168028	9750	10879	13512	8276	9406	10558
## ENSG00000168314	0	0	0	0	0	0
## ENSG00000170011	0	0	0	0	0	0
## ENSG00000114784	351	366	444	611	620	777
## ENSG00000168032	0	1	1	0	1	1
## ENSG00000188846	5726	6570	7996	5945	6588	7619
## ENSG00000177873	33	42	51	35	41	52
## ENSG00000177842	4	5	9	4	9	5
## ENSG00000172888	437	474	609	476	576	691
## ENSG00000168036	4508	5143	6410	2621	3084	3396
## ENSG00000168038	33	41	48	32	48	48
## ENSG00000182606	1005	1156	1519	1042	1279	1424
## ENSG00000187094	4	6	9	8	5	8
## ENSG00000157093	0	0	0	0	0	0
## ENSG00000114812	0	0	0	0	0	0
## ENSG00000093183	563	670	796	504	548	616
## ENSG00000008324	71	98	109	130	122	152
## ENSG00000114857	646	714	857	825	1026	1079
## ENSG00000114853	476	559	668	540	591	692
## ENSG00000157119	0	1	0	0	0	0
## ENSG00000244607	0	1	2	2	7	6
## ENSG00000010282	0	0	0	0	0	0
## ENSG00000280571	0	0	0	0	0	0
## ENSG00000181061	551	722	857	531	658	663
## ENSG00000144648	0	0	0	1	3	1
## ENSG00000273291	1	0	2	0	0	0
## ENSG00000240747	3	5	6	0	4	3
## ENSG00000180432	0	0	1	0	0	0
## ENSG00000182983	4	7	10	7	11	7
## ENSG00000144649	1	1	2	1	0	0
## ENSG00000144647	156	220	260	123	148	168
## ENSG00000163788	248	280	374	395	464	522
## ENSG00000160746	1049	1233	1592	1273	1360	1586
## ENSG00000011198	296	360	449	464	542	682
## ENSG00000173769	0	0	0	0	0	0
## ENSG00000179152	277	275	380	202	219	284
## ENSG00000185219	382	384	453	411	431	539
## ENSG00000178917	18	14	21	25	23	38
## ENSG00000196345	44	52	69	74	65	93
## ENSG00000144792	35	33	44	58	45	57
## ENSG00000186448	225	230	290	265	283	369
## ENSG00000169981	117	135	169	125	125	160
## ENSG00000196653	51	45	47	38	82	74
## ENSG00000186446	31	38	36	33	30	40
## ENSG00000163807	331	391	455	315	412	438
## ENSG00000163808	153	165	247	21	24	34
## ENSG00000169964	99	106	118	79	66	96
## ENSG00000163810	0	0	0	0	0	1

## ENSG00000163812	859	990	1197	850	863	1083
## ENSG00000075914	252	292	329	240	291	285
## ENSG00000163815	12	17	16	15	15	13
## ENSG00000163814	442	480	623	767	729	1050
## ENSG00000249992	1655	1933	2551	5617	4744	7609
## ENSG00000011376	585	668	825	598	672	828
## ENSG00000144791	1050	1313	1425	1159	1294	1314
## ENSG00000211456	750	804	1053	846	960	1117
## ENSG00000163817	0	0	0	0	0	0
## ENSG00000163818	208	245	275	194	263	262
## ENSG00000173585	0	0	0	0	0	0
## ENSG00000163820	1394	1523	1996	1560	1718	1995
## ENSG00000172215	6	4	6	4	2	2
## ENSG00000173578	0	0	0	1	0	0
## ENSG00000183625	0	0	0	0	0	0
## ENSG00000163823	0	0	1	2	4	3
## ENSG00000121807	0	0	0	0	0	0
## ENSG00000160791	0	0	0	0	0	0
## ENSG00000121797	0	4	2	3	0	2
## ENSG00000012223	0	0	1	0	0	0
## ENSG00000163825	1	0	0	0	0	0
## ENSG00000163827	162	190	197	78	98	93
## ENSG00000241186	0	0	0	1	0	0
## ENSG00000178038	38	52	77	42	35	36
## ENSG00000181585	2	2	2	2	3	3
## ENSG00000206549	0	0	0	0	0	0
## ENSG00000261603	0	0	0	0	0	0
## ENSG00000188086	0	0	0	0	0	0
## ENSG00000178055	0	0	0	0	0	0
## ENSG00000160808	0	0	0	0	0	0
## ENSG00000160801	1	1	1	1	1	2
## ENSG00000160799	182	214	270	209	245	264
## ENSG00000160796	126	152	181	84	101	134
## ENSG00000181555	920	1130	1300	980	1054	1255
## ENSG00000088727	29	34	47	41	42	38
## ENSG00000114648	547	604	781	547	567	694
## ENSG00000076201	999	1104	1547	1002	1039	1303
## ENSG00000114650	922	1022	1377	1827	1826	2238
## ENSG00000163832	270	291	363	223	259	245
## ENSG00000114646	1	3	2	3	1	7
## ENSG00000173473	2014	2504	3014	3527	3965	4669
## ENSG00000132153	1000	1146	1592	1437	1617	1955
## ENSG00000047849	10344	11999	15305	9424	11028	12204
## ENSG00000164045	143	186	225	65	59	90
## ENSG00000164047	0	0	0	0	0	0
## ENSG00000164048	73	98	115	85	110	131
## ENSG00000172113	162	171	217	148	160	179
## ENSG00000229453	0	0	0	0	0	0
## ENSG00000164049	0	0	1	0	3	3
## ENSG00000164050	486	554	778	1896	1923	2388
## ENSG00000164051	114	123	148	161	151	201
## ENSG00000232112	361	426	490	492	521	601
## ENSG00000164053	101	136	148	95	132	130
## ENSG00000213689	54	74	83	89	87	121

## ENSG00000164054	2065	2354	3099	2659	2777	3377
## ENSG00000114268	113	123	164	138	125	152
## ENSG00000145040	14	16	22	17	10	16
## ENSG00000114270	924	1052	1326	848	919	1241
## ENSG00000010256	2000	2263	2929	2284	2467	3058
## ENSG00000183396	0	0	0	0	0	0
## ENSG00000225697	157	186	241	503	477	703
## ENSG00000008300	56	60	65	99	130	134
## ENSG00000213672	313	385	498	252	280	336
## ENSG00000068745	728	807	982	1224	1410	1664
## ENSG00000114302	1868	2324	2814	2186	2569	2817
## ENSG00000178537	229	263	359	290	371	388
## ENSG00000221883	11	9	8	10	5	13
## ENSG00000177479	888	1022	1254	1053	1258	1550
## ENSG00000178467	205	219	300	353	336	456
## ENSG00000178252	1548	1685	2216	1978	2174	2531
## ENSG00000178149	184	188	248	188	190	241
## ENSG00000178057	453	519	643	425	499	565
## ENSG00000178035	1346	1508	2010	1197	1277	1479
## ENSG00000198218	882	1024	1314	1146	1209	1480
## ENSG00000172053	1712	1953	2544	2580	2932	3458
## ENSG00000172046	636	679	840	867	973	1205
## ENSG00000172037	5069	5177	7136	6035	6384	7552
## ENSG00000177352	252	250	348	199	196	311
## ENSG00000185909	249	294	332	510	540	749
## ENSG00000236980	0	0	0	0	0	0
## ENSG00000173421	1	4	2	0	0	4
## ENSG00000188315	66	77	75	93	117	130
## ENSG00000114316	718	839	1105	661	740	841
## ENSG00000233276	2160	2456	3122	2585	2600	3305
## ENSG00000067560	8049	9335	11814	8958	10043	11737
## ENSG00000145022	440	503	727	490	542	608
## ENSG00000145020	9	6	22	14	19	22
## ENSG00000145029	127	129	174	135	158	217
## ENSG00000173402	1713	1998	2619	1582	1810	2110
## ENSG00000164061	3	8	8	11	11	14
## ENSG00000164062	964	1057	1426	1256	1288	1586
## ENSG00000173531	16	16	15	37	30	58
## ENSG00000164068	413	464	672	907	858	1112
## ENSG00000176020	0	0	0	0	0	0
## ENSG00000173540	348	435	567	418	422	482
## ENSG00000176095	775	873	1141	1260	1274	1568
## ENSG00000187492	0	0	1	0	0	0
## ENSG00000185614	19	20	36	14	19	21
## ENSG00000182179	180	193	263	154	207	204
## ENSG00000183763	74	73	95	5	9	12
## ENSG00000164076	0	0	0	0	0	0
## ENSG00000164078	1	1	0	0	0	0
## ENSG00000164077	171	234	265	176	195	263
## ENSG00000004534	620	690	873	899	958	1226
## ENSG00000003756	670	757	927	877	972	1138
## ENSG00000001617	558	660	848	1811	1798	2511
## ENSG00000114349	0	0	0	0	0	0
## ENSG00000188338	2	0	1	3	2	3

## ENSG00000114353	7753	8735	11195	7773	8576	9878
## ENSG00000012171	119	118	155	63	62	82
## ENSG00000179564	0	0	0	0	1	0
## ENSG00000214706	671	760	904	516	567	697
## ENSG00000186792	61	67	118	97	97	127
## ENSG00000243477	70	63	76	33	57	53
## ENSG00000114378	2	3	5	4	3	5
## ENSG00000068001	499	530	723	882	924	1159
## ENSG00000114383	294	299	448	326	369	419
## ENSG00000068028	400	446	628	330	390	456
## ENSG00000004838	1	4	6	5	0	3
## ENSG00000114388	126	135	181	114	136	151
## ENSG00000114395	114	139	186	187	174	213
## ENSG00000272104	0	1	0	0	0	0
## ENSG00000126062	666	796	1034	1281	1360	1710
## ENSG00000007402	3	4	10	11	4	8
## ENSG00000088543	95	105	152	100	110	126
## ENSG00000114735	199	213	269	214	233	231
## ENSG00000114737	30	20	36	58	50	60
## ENSG00000114738	429	532	615	420	454	531
## ENSG00000088538	10	10	5	9	5	10
## ENSG00000145050	866	973	1186	2188	2134	2760
## ENSG00000259956	1182	1333	1705	1171	1352	1547
## ENSG00000145041	445	489	570	529	579	704
## ENSG00000164080	598	655	761	528	523	619
## ENSG00000164081	276	333	435	621	686	820
## ENSG00000164082	1	0	1	2	3	0
## ENSG00000214686	0	0	0	0	0	0
## ENSG00000229972	0	0	0	0	0	0
## ENSG00000184345	0	0	0	0	0	0
## ENSG00000214681	0	0	0	0	0	0
## ENSG00000173389	0	0	0	0	0	0
## ENSG00000114767	351	400	471	389	357	418
## ENSG00000041880	131	160	218	112	132	181
## ENSG00000180929	1	0	0	0	0	1
## ENSG00000090097	949	1065	1426	722	800	891
## ENSG00000114779	223	223	315	64	81	80
## ENSG00000248487	34	46	54	66	74	101
## ENSG00000114786	1	0	0	1	0	1
## ENSG00000243989	4	4	1	1	5	8
## ENSG00000162244	3998	4704	5827	4294	4620	5498
## ENSG00000164086	440	486	569	277	279	278
## ENSG00000164087	141	188	229	31	68	56
## ENSG00000023330	550	640	807	906	938	1236
## ENSG00000239732	0	0	0	0	0	1
## ENSG00000173366	0	0	0	0	0	0
## ENSG00000247596	578	709	910	718	818	924
## ENSG00000164088	222	237	271	98	132	122
## ENSG00000164091	1652	1961	2495	1901	2107	2475
## ENSG00000168237	40	43	59	42	40	66
## ENSG00000114841	43	53	58	103	95	120
## ENSG00000163930	823	970	1210	541	557	698
## ENSG00000010318	17	28	25	27	26	28
## ENSG00000010319	0	1	0	0	0	0

## ENSG00000114854	2	1	1	0	4	2
## ENSG00000010322	1428	1533	2073	1963	2132	2495
## ENSG00000010327	0	0	0	0	0	0
## ENSG00000168268	2768	3185	4061	2127	2378	2669
## ENSG00000168273	78	106	107	92	97	140
## ENSG00000163939	1218	1488	1804	2002	2270	2684
## ENSG00000163938	1017	1162	1312	1058	1278	1385
## ENSG00000016864	786	820	1036	882	1041	1106
## ENSG00000114902	774	924	1114	961	1139	1245
## ENSG00000114904	233	274	333	151	199	224
## ENSG00000055957	0	0	0	0	0	0
## ENSG00000162267	1	7	12	3	5	7
## ENSG00000055955	0	1	0	0	0	0
## ENSG00000243696	3	2	1	1	0	1
## ENSG00000272573	0	0	0	0	0	0
## ENSG00000248592	0	0	0	0	2	2
## ENSG00000213533	31	41	45	28	30	29
## ENSG00000163935	37	26	49	18	18	20
## ENSG00000272305	2	0	1	4	2	2
## ENSG00000163933	243	294	356	171	189	232
## ENSG00000163932	234	250	301	223	234	252
## ENSG00000163931	4356	4816	6125	4414	4849	5937
## ENSG00000272886	313	292	434	766	856	1054
## ENSG00000157388	0	0	1	0	1	0
## ENSG00000016391	3	2	4	5	3	7
## ENSG00000056736	36	24	34	26	30	47
## ENSG00000113812	419	434	552	376	406	472
## ENSG00000113811	253	283	396	408	409	559
## ENSG00000157445	9	19	25	42	56	56
## ENSG00000144771	0	0	0	0	0	0
## ENSG00000114251	8226	9472	11672	16044	18142	21797
## ENSG00000187672	3	1	2	3	3	6
## ENSG00000180376	89	77	99	80	120	133
## ENSG00000163946	723	826	979	734	805	988
## ENSG00000163947	110	122	165	198	211	258
## ENSG00000186451	0	0	0	1	0	0
## ENSG00000144730	104	147	148	75	102	91
## ENSG00000163666	2	0	0	6	3	2
## ENSG00000157500	523	675	798	365	415	489
## ENSG00000239388	1	2	5	2	4	5
## ENSG00000174844	0	1	0	0	1	2
## ENSG00000174840	522	585	714	497	535	621
## ENSG00000168374	7027	8273	10039	8651	10194	10929
## ENSG00000174839	138	197	217	324	416	471
## ENSG00000163681	802	927	1170	1097	1256	1464
## ENSG00000136068	4598	5194	6730	1734	1923	2251
## ENSG00000163687	0	0	0	0	0	0
## ENSG00000163686	123	103	146	121	114	185
## ENSG00000163684	193	203	287	232	246	300
## ENSG00000255154	0	0	2	0	0	1
## ENSG00000168297	428	487	555	397	495	506
## ENSG00000168291	712	901	1063	692	774	919
## ENSG00000168301	58	72	111	58	65	68
## ENSG00000168306	75	78	106	18	20	19



## ENSG00000168309	0	1	0	0	1	0
## ENSG00000198643	0	0	0	0	0	0
## ENSG00000163689	22	38	43	12	24	23
## ENSG00000189283	0	2	0	1	1	1
## ENSG00000144724	960	1108	1367	2055	2247	2606
## ENSG00000114405	48	72	91	56	71	63
## ENSG00000153266	0	0	0	0	0	0
## ENSG00000163618	0	0	0	3	1	2
## ENSG00000163630	0	0	0	0	0	0
## ENSG00000188817	0	0	0	0	0	0
## ENSG00000163632	4	1	4	2	1	0
## ENSG00000163634	451	585	663	454	563	648
## ENSG00000163635	253	289	332	340	399	440
## ENSG00000163636	932	1094	1387	1290	1366	1568
## ENSG00000163637	269	289	350	353	421	495
## ENSG00000163638	37	36	53	161	185	207
## ENSG00000151276	669	659	816	583	628	700
## ENSG00000144741	93	121	128	172	191	235
## ENSG00000144749	1175	1382	1750	864	948	1138
## ENSG00000163376	51	56	80	168	202	267
## ENSG00000172340	660	773	1039	655	879	899
## ENSG00000183662	0	0	0	0	0	0
## ENSG00000163377	0	2	0	0	0	0
## ENSG00000163378	422	579	667	189	226	269
## ENSG00000144747	892	1011	1285	1245	1436	1675
## ENSG00000144744	595	682	799	661	795	938
## ENSG00000144746	1751	1996	2534	1379	1624	1748
## ENSG00000163380	0	0	0	0	1	1
## ENSG00000114541	7	10	8	1	4	3
## ENSG00000187098	266	272	348	167	222	253
## ENSG00000114861	1210	1468	1703	1249	1589	1694
## ENSG00000163412	44	68	69	43	78	68
## ENSG00000170837	0	1	1	0	0	2
## ENSG00000163421	0	0	0	0	0	0
## ENSG00000163602	504	589	681	716	797	989
## ENSG00000144736	287	330	396	172	252	194
## ENSG00000172986	175	190	211	67	80	89
## ENSG00000163605	907	1055	1268	1021	1105	1374
## ENSG00000255423	11	9	16	5	11	13
## ENSG00000121440	230	250	314	154	213	227
## ENSG00000113805	204	247	276	212	270	256
## ENSG00000172969	0	1	0	1	0	0
## ENSG00000227124	57	54	57	69	68	99
## ENSG00000185008	280	299	411	394	469	494
## ENSG00000169855	1460	1688	2065	2732	3174	3694
## ENSG00000114480	1228	1369	1730	1113	1263	1436
## ENSG00000175161	2	0	0	1	0	2
## ENSG00000206538	1505	1861	2142	574	702	714
## ENSG00000083937	420	524	600	359	401	507
## ENSG00000064835	0	0	0	0	1	0
## ENSG00000179097	0	0	0	0	0	0
## ENSG00000163320	1150	1249	1657	1566	1744	2199
## ENSG00000175105	216	257	302	384	420	488
## ENSG00000179021	242	291	361	207	218	266

## ENSG00000044524	5	6	9	1	2	0
## ENSG00000184500	175	214	203	412	452	625
## ENSG00000169379	114	120	161	247	261	346
## ENSG00000178750	0	0	0	0	0	0
## ENSG00000178700	67	101	124	167	158	211
## ENSG00000178694	84	86	103	175	137	219
## ENSG00000269028	47	60	79	55	78	83
## ENSG00000080224	0	0	0	0	0	0
## ENSG00000113966	74	94	84	94	114	161
## ENSG00000080200	403	454	561	446	536	535
## ENSG00000170854	338	330	429	208	257	264
## ENSG00000183185	0	0	0	0	0	0
## ENSG00000196578	0	0	0	0	0	0
## ENSG00000231192	0	0	0	0	0	0
## ENSG00000236032	0	0	0	0	0	0
## ENSG00000233412	0	0	0	0	0	0
## ENSG00000230301	0	0	0	0	0	0
## ENSG00000197938	0	0	0	0	0	0
## ENSG00000196098	0	0	0	0	0	0
## ENSG00000206536	0	0	0	0	0	0
## ENSG00000232382	0	0	0	0	0	0
## ENSG00000231861	0	0	0	0	0	0
## ENSG00000080822	385	423	518	865	963	1178
## ENSG00000080819	354	435	493	541	596	751
## ENSG00000154165	0	0	0	0	0	0
## ENSG00000064225	23	34	43	40	43	46
## ENSG00000057019	15095	17454	22225	16768	19014	21755
## ENSG00000144810	3347	3940	4787	5533	6480	7300
## ENSG00000184220	196	242	274	102	132	143
## ENSG00000168386	1066	962	1329	2949	2889	3726
## ENSG00000235156	1	0	0	0	0	0
## ENSG00000036054	891	1028	1268	1161	1323	1451
## ENSG00000114021	265	353	345	251	308	361
## ENSG00000154174	1254	1489	1842	1081	1264	1376
## ENSG00000206535	28	20	36	11	18	12
## ENSG00000181458	399	395	467	301	339	376
## ENSG00000144820	0	0	0	0	0	0
## ENSG00000114354	1932	2312	2940	1697	1967	2297
## ENSG00000154175	51	60	78	38	40	48
## ENSG00000081148	5	10	9	16	16	14
## ENSG00000138468	126	165	184	136	172	235
## ENSG00000174173	275	302	362	460	458	579
## ENSG00000081154	1568	1860	2140	1830	2169	2550
## ENSG00000066422	364	418	510	439	488	589
## ENSG00000114391	3867	4423	5257	3763	4202	4677
## ENSG00000182504	192	213	277	283	298	372
## ENSG00000144815	976	1079	1371	754	876	927
## ENSG00000144802	203	250	330	928	1019	1451
## ENSG00000170044	8	7	13	6	7	7
## ENSG00000170017	5995	7084	8978	3008	3785	3861
## ENSG00000114423	323	275	340	827	839	1038
## ENSG00000138483	0	2	1	0	1	0
## ENSG00000114439	1009	1130	1424	744	975	915
## ENSG00000196776	1526	1818	2318	1242	1517	1637

## ENSG00000114446	517	626	724	524	603	752
## ENSG00000114455	0	0	0	0	0	0
## ENSG00000144821	22	16	21	5	3	6
## ENSG00000163507	273	342	448	69	88	124
## ENSG00000280684	0	1	0	0	1	0
## ENSG00000198919	200	200	318	177	242	208
## ENSG00000163515	0	0	0	0	0	0
## ENSG00000163519	0	0	0	0	0	0
## ENSG00000138472	0	0	0	0	0	0
## ENSG00000114487	0	0	0	0	0	0
## ENSG00000163530	1	0	0	0	0	0
## ENSG00000121570	0	2	5	4	2	0
## ENSG00000177707	1897	2288	2840	913	1171	1173
## ENSG00000153283	1	1	7	3	8	1
## ENSG00000177494	5	6	6	2	2	0
## ENSG00000240891	12	12	7	5	3	4
## ENSG00000144824	486	529	622	192	297	234
## ENSG00000144827	367	409	520	209	265	260
## ENSG00000144834	34	31	41	12	8	18
## ENSG00000176040	0	1	1	0	0	0
## ENSG00000114529	91	87	127	77	73	121
## ENSG00000174500	9	10	14	4	11	15
## ENSG00000172139	1	0	1	1	0	1
## ENSG00000091972	10	5	6	3	11	5
## ENSG00000186265	1	1	2	0	0	2
## ENSG00000144848	484	582	691	474	603	676
## ENSG00000138459	393	379	546	414	493	567
## ENSG00000091986	11266	12244	15951	6251	8005	7073
## ENSG00000206531	0	1	1	0	0	0
## ENSG00000163606	0	1	0	0	1	0
## ENSG00000163607	150	170	222	77	74	101
## ENSG00000163608	449	470	547	519	582	711
## ENSG00000144857	136	188	220	253	270	310
## ENSG00000206530	43	28	38	93	93	105
## ENSG00000163611	114	114	165	159	213	203
## ENSG00000072858	0	0	1	0	2	1
## ENSG00000176542	235	236	299	271	296	342
## ENSG00000121579	2168	2679	3078	2711	3118	3698
## ENSG00000114573	1178	1365	1715	1032	1154	1325
## ENSG00000178075	46	51	73	81	90	153
## ENSG00000184307	16	22	17	28	24	52
## ENSG00000163617	10	33	20	25	28	36
## ENSG00000151576	219	251	279	214	278	305
## ENSG00000151577	0	0	0	0	0	0
## ENSG00000174255	0	0	0	0	0	0
## ENSG00000181847	0	0	0	0	0	0
## ENSG00000181722	13	19	25	40	27	35
## ENSG00000279131	0	0	0	0	0	0
## ENSG00000279380	0	0	0	0	0	0
## ENSG00000172020	12	11	16	52	50	64
## ENSG00000185565	275	310	376	351	439	533
## ENSG00000144847	0	0	0	1	1	1
## ENSG00000163424	0	0	0	0	0	0
## ENSG00000251012	0	0	0	0	0	0

## ENSG00000114638	8	13	13	27	18	25
## ENSG00000121578	411	469	582	544	653	679
## ENSG00000031081	766	903	1098	901	976	1080
## ENSG00000176142	573	571	709	682	727	849
## ENSG00000163389	341	405	497	359	433	460
## ENSG00000113845	494	576	699	693	769	945
## ENSG00000121594	0	0	0	0	0	0
## ENSG00000144843	6	2	8	2	4	1
## ENSG00000144837	0	0	0	1	0	0
## ENSG00000121577	3	2	6	5	2	0
## ENSG00000138495	151	228	229	218	247	293
## ENSG00000183833	0	0	0	0	0	0
## ENSG00000144852	0	0	0	0	0	0
## ENSG00000082701	1072	1249	1511	1822	2061	2355
## ENSG00000175697	2	3	4	0	2	4
## ENSG00000163428	616	694	898	572	677	832
## ENSG00000163430	23425	26283	32806	26569	31514	34982
## ENSG00000065518	548	672	802	967	1041	1285
## ENSG00000113924	0	0	2	1	0	1
## ENSG00000144840	245	276	302	143	147	148
## ENSG00000153767	141	153	202	249	290	287
## ENSG00000145087	1	0	2	0	0	0
## ENSG00000051341	143	220	240	29	40	25
## ENSG00000186103	0	0	0	0	0	0
## ENSG00000163833	0	0	0	0	0	0
## ENSG00000180353	3	9	4	2	2	2
## ENSG00000173230	2248	2230	2776	2548	3173	3143
## ENSG00000173226	172	202	246	163	198	239
## ENSG00000145088	13	12	16	7	8	8
## ENSG00000163406	3	5	6	1	4	6
## ENSG00000145103	0	0	1	0	0	0
## ENSG00000114013	0	0	0	0	0	0
## ENSG00000036828	0	0	0	0	0	0
## ENSG00000121552	2	2	2	0	0	0
## ENSG00000160124	123	120	141	91	82	123
## ENSG00000114023	173	194	220	203	207	241
## ENSG00000196981	119	100	128	89	107	126
## ENSG00000114030	870	1029	1308	461	516	606
## ENSG00000138496	120	134	148	77	63	80
## ENSG00000163840	344	329	459	229	272	313
## ENSG00000173200	2	0	0	1	1	2
## ENSG00000173193	408	479	515	874	976	1114
## ENSG00000169087	36	39	51	79	62	74
## ENSG00000138463	193	232	265	358	389	446
## ENSG00000082684	0	0	0	0	0	0
## ENSG00000065485	544	631	847	696	801	859
## ENSG00000121542	140	189	219	151	169	130
## ENSG00000173175	8	11	15	13	9	11
## ENSG00000206527	782	905	1239	402	464	524
## ENSG00000065534	14979	16672	21033	10255	11859	12859
## ENSG00000175455	790	741	1097	1675	2040	2202
## ENSG00000065371	0	0	0	0	1	1
## ENSG00000160145	232	253	343	623	694	787
## ENSG00000114491	302	342	451	324	357	410

## ENSG00000082781	3734	4227	5210	7882	8261	9972
## ENSG00000173702	0	0	1	0	0	1
## ENSG00000173706	2660	2822	3225	1252	1549	1378
## ENSG00000221955	54	45	78	18	20	23
## ENSG00000163848	781	900	1142	517	622	694
## ENSG00000114520	430	490	630	420	575	584
## ENSG00000144909	301	367	469	318	375	436
## ENSG00000189366	0	1	0	0	0	0
## ENSG00000114547	0	0	0	0	0	0
## ENSG00000114544	353	362	490	541	628	668
## ENSG00000144908	0	0	0	0	0	0
## ENSG00000163884	5	4	4	7	1	12
## ENSG00000163885	0	0	0	0	0	0
## ENSG00000070476	206	220	290	191	182	212
## ENSG00000159650	0	0	0	0	0	0
## ENSG00000180767	0	0	1	0	0	0
## ENSG00000180697	0	0	0	0	0	0
## ENSG00000197763	89	98	111	89	103	103
## ENSG00000206483	0	0	0	0	0	0
## ENSG00000159685	110	144	215	104	135	169
## ENSG00000114554	2914	3345	4445	3138	3285	4084
## ENSG00000163870	459	472	612	719	683	901
## ENSG00000073111	419	508	665	140	199	168
## ENSG00000114631	47	58	98	69	97	98
## ENSG00000114626	119	152	168	188	205	279
## ENSG00000074416	2939	3639	4673	813	985	1037
## ENSG00000187715	0	0	0	0	0	0
## ENSG00000058262	12952	15010	19227	14612	16473	18362
## ENSG00000175792	671	790	915	564	608	732
## ENSG00000132394	104	131	178	90	93	111
## ENSG00000179407	0	0	0	0	0	0
## ENSG00000179348	163	182	212	121	137	180
## ENSG00000163902	4633	5000	6634	5832	6507	7454
## ENSG00000075785	3782	4488	5558	6594	6865	8649
## ENSG00000177646	397	469	608	355	362	459
## ENSG00000114656	0	1	0	1	2	3
## ENSG00000187695	1	0	1	1	1	1
## ENSG00000114654	0	0	1	5	8	8
## ENSG00000169704	0	0	0	0	0	0
## ENSG00000172780	59	83	91	203	241	292
## ENSG00000261796	0	0	0	0	0	0
## ENSG00000240682	123	167	161	200	197	232
## ENSG00000169714	2075	2482	3151	2494	2821	3378
## ENSG00000181789	4515	5103	6629	2605	3067	3212
## ENSG00000183624	283	385	410	379	414	461
## ENSG00000184897	343	481	603	413	494	629
## ENSG00000172771	4	0	2	6	7	8
## ENSG00000129071	298	327	498	506	603	689
## ENSG00000163913	271	264	396	317	325	373
## ENSG00000163914	0	0	0	0	0	1
## ENSG00000178804	0	0	0	0	0	0
## ENSG00000004399	1934	2035	2814	2189	2379	2949
## ENSG00000172765	163	217	258	302	324	422
## ENSG00000170893	0	0	0	0	1	0

## ENSG00000251287	0	3	4	2	1	0
## ENSG00000172752	0	0	0	0	0	0
## ENSG00000206384	0	1	1	1	0	0
## ENSG00000196455	317	378	487	498	566	636
## ENSG00000017260	1862	1899	2517	2197	2506	2989
## ENSG00000280127	0	0	0	0	0	0
## ENSG00000034533	64	60	67	40	44	46
## ENSG00000114670	33	32	42	31	41	47
## ENSG00000198585	564	654	784	631	738	801
## ENSG00000114686	1042	1278	1498	1058	1140	1368
## ENSG00000196353	0	0	1	0	1	1
## ENSG00000014257	17	31	28	21	29	17
## ENSG00000138246	1734	2019	2456	2518	2783	3313
## ENSG00000240303	4	1	1	2	5	7
## ENSG00000274810	0	0	3	1	4	6
## ENSG00000129048	2	5	2	9	13	13
## ENSG00000081307	537	625	765	1582	1831	2222
## ENSG00000113971	92	104	128	108	109	106
## ENSG00000144868	14	28	20	14	14	20
## ENSG00000170819	0	0	0	0	0	0
## ENSG00000091527	3544	4046	4937	1125	1369	1530
## ENSG00000163781	523	612	761	505	556	633
## ENSG00000091513	0	0	0	0	3	1
## ENSG00000144867	1241	1316	1642	1326	1510	1670
## ENSG00000154917	46	49	97	31	35	30
## ENSG00000221972	0	0	0	1	1	2
## ENSG00000174640	33	26	22	61	54	80
## ENSG00000163785	1026	1227	1400	1158	1436	1653
## ENSG00000114019	3282	4173	5605	2507	3404	3394
## ENSG00000129055	553	626	743	656	794	901
## ENSG00000182923	250	299	373	307	366	400
## ENSG00000154928	6	7	18	21	27	35
## ENSG00000174611	0	0	0	1	2	2
## ENSG00000073711	795	941	1145	337	491	512
## ENSG00000174579	218	203	278	181	197	213
## ENSG00000114054	360	394	540	326	349	413
## ENSG00000118007	818	1037	1195	1000	1145	1365
## ENSG00000168917	125	149	191	182	191	236
## ENSG00000158092	326	349	446	452	488	570
## ENSG00000174564	8	8	14	3	5	5
## ENSG00000168875	0	0	0	0	0	0
## ENSG00000066405	6	6	7	3	2	2
## ENSG00000158163	101	141	135	47	59	56
## ENSG00000118017	1	1	1	1	0	0
## ENSG00000138231	147	172	183	167	178	186
## ENSG00000114098	475	546	693	380	472	495
## ENSG00000181322	3	0	1	1	2	2
## ENSG00000158186	979	1131	1430	716	811	940
## ENSG00000158220	2	1	1	7	3	8
## ENSG00000114107	134	155	158	92	113	149
## ENSG00000158234	58	64	66	60	69	77
## ENSG00000051382	367	461	605	945	985	1263
## ENSG00000183770	5	6	7	33	23	58
## ENSG00000206262	2	0	3	9	7	9

## ENSG00000206260	0	0	0	0	0	0
## ENSG00000175110	325	377	459	372	431	453
## ENSG00000184814	0	0	0	0	0	0
## ENSG00000233701	0	0	0	0	0	0
## ENSG00000184432	5071	5660	7372	5781	6716	7331
## ENSG00000114113	0	0	0	0	1	1
## ENSG00000114115	106	141	169	253	264	306
## ENSG00000163864	0	0	2	2	0	0
## ENSG00000158258	2	3	5	5	2	6
## ENSG00000155890	0	0	0	0	0	0
## ENSG00000114120	613	653	778	995	1190	1399
## ENSG00000175093	0	0	1	0	1	3
## ENSG00000155893	157	199	242	481	534	686
## ENSG00000177311	2750	2926	3684	3905	3975	4910
## ENSG00000155903	314	370	457	1542	1664	2117
## ENSG00000280530	0	0	0	0	0	0
## ENSG00000114125	1014	1187	1437	1280	1365	1614
## ENSG00000114124	0	0	0	1	0	2
## ENSG00000069849	2023	2435	3048	4638	4725	5998
## ENSG00000114126	338	404	511	668	806	951
## ENSG00000175066	263	280	355	290	371	355
## ENSG00000114127	690	774	891	1240	1468	1639
## ENSG00000175054	493	506	662	495	573	647
## ENSG00000120756	4	15	20	5	7	10
## ENSG00000144935	144	182	199	144	150	185
## ENSG00000163710	11	10	17	2	6	6
## ENSG00000188582	0	1	1	0	0	4
## ENSG00000163714	959	1133	1441	990	1228	1353
## ENSG00000175040	198	200	269	959	918	1161
## ENSG00000181804	45	43	48	28	45	46
## ENSG00000181744	219	259	317	390	421	579
## ENSG00000152952	5158	5510	7134	6579	7108	9054
## ENSG00000114698	80	73	103	189	214	246
## ENSG00000163746	0	0	0	0	0	0
## ENSG00000188313	114	130	158	266	306	369
## ENSG00000231213	0	0	0	0	0	0
## ENSG00000174963	0	0	0	0	0	0
## ENSG00000152977	0	0	0	0	0	0
## ENSG00000144891	8	17	22	14	19	24
## ENSG00000153002	0	0	0	0	0	0
## ENSG00000163751	2	0	0	1	0	0
## ENSG00000163754	1082	1283	1573	1004	1250	1321
## ENSG00000071794	526	610	767	333	429	449
## ENSG00000163755	337	354	449	309	334	419
## ENSG00000047457	1	0	0	0	1	1
## ENSG00000163762	2	2	3	3	4	3
## ENSG00000169908	1827	2256	2941	3022	3183	4375
## ENSG00000169903	2	6	6	5	7	9
## ENSG00000018408	1950	2428	2870	2248	2821	3222
## ENSG00000114744	314	421	439	262	316	351
## ENSG00000206199	0	0	0	0	0	0
## ENSG00000082996	275	291	407	509	571	714
## ENSG00000070087	3109	3635	4361	3220	4032	4392
## ENSG00000196428	931	1019	1383	930	960	1146

## ENSG00000120742	2638	3015	3761	2934	3451	3669
## ENSG00000144895	789	912	1150	1041	1149	1352
## ENSG00000198843	1654	1913	2433	1715	1956	2155
## ENSG00000163645	0	0	0	1	1	2
## ENSG00000181788	291	314	375	386	370	411
## ENSG00000280141	0	0	0	0	0	0
## ENSG00000260234	0	0	0	0	0	0
## ENSG00000163646	0	0	0	0	0	0
## ENSG00000144893	5	5	8	25	38	40
## ENSG00000174946	0	0	0	0	0	0
## ENSG00000174944	0	0	1	1	3	1
## ENSG00000138271	2	0	1	1	2	2
## ENSG00000181631	0	0	0	0	0	0
## ENSG00000169313	0	1	0	0	0	0
## ENSG00000152580	2	0	2	8	10	10
## ENSG00000197953	0	0	0	0	0	0
## ENSG00000114771	3	1	6	11	16	20
## ENSG00000198829	4	3	2	9	7	4
## ENSG00000152601	2980	3850	4743	2663	3103	3630
## ENSG00000221962	0	0	0	0	0	0
## ENSG00000169860	0	0	0	4	7	8
## ENSG00000181467	610	748	918	872	826	981
## ENSG00000114790	52	44	72	23	17	39
## ENSG00000174953	692	866	1018	1340	1511	1760
## ENSG00000174948	0	0	0	0	0	0
## ENSG00000196549	292	346	433	2481	2524	3639
## ENSG00000114805	0	0	2	1	2	3
## ENSG00000174928	30	36	44	16	28	25
## ENSG00000169359	465	572	723	591	649	795
## ENSG00000163655	821	1033	1277	685	773	917
## ENSG00000169282	12	38	31	6	17	17
## ENSG00000114850	7132	8744	10541	3610	4505	4531
## ENSG00000163659	756	794	1058	1329	1536	2053
## ENSG00000197980	2	1	3	1	2	2
## ENSG00000163660	532	543	799	866	1121	1266
## ENSG00000197415	384	420	567	154	202	195
## ENSG00000163661	2422	2677	3153	832	1020	1120
## ENSG00000174899	8	12	17	10	5	6
## ENSG00000168779	30	27	40	33	32	38
## ENSG00000174891	193	216	291	193	266	280
## ENSG00000178053	46	76	62	72	78	70
## ENSG00000168827	595	690	899	761	884	996
## ENSG00000079257	354	405	479	294	412	355
## ENSG00000118849	23	34	47	27	46	36
## ENSG00000118855	1120	1246	1518	1602	1666	2010
## ENSG00000250588	115	113	140	71	73	81
## ENSG00000214216	0	0	0	0	0	0
## ENSG00000151967	16	25	25	7	19	14
## ENSG00000168811	89	100	106	63	66	92
## ENSG00000180044	2	1	3	8	11	16
## ENSG00000248710	0	0	0	0	0	0
## ENSG00000068885	133	137	180	156	171	198
## ENSG00000113810	1137	1333	1753	311	419	467
## ENSG00000213186	223	286	335	94	83	82



## ENSG00000186432	2236	2610	3204	1963	2312	2588
## ENSG00000179674	0	0	1	0	1	0
## ENSG00000163590	11	14	24	59	77	104
## ENSG00000169255	97	119	143	165	237	249
## ENSG00000169251	995	1156	1381	1337	1585	1751
## ENSG00000196542	0	0	0	0	0	0
## ENSG00000182447	0	0	0	0	0	0
## ENSG00000090402	0	0	0	0	0	0
## ENSG00000121871	0	0	0	0	0	0
## ENSG00000114200	10	19	17	17	15	17
## ENSG00000169064	0	0	0	0	0	0
## ENSG00000114204	0	0	0	0	0	0
## ENSG00000174776	0	0	0	0	0	0
## ENSG00000114209	392	467	508	617	666	851
## ENSG00000163536	40	44	23	37	61	51
## ENSG00000173905	2367	2656	3477	1716	1999	2286
## ENSG00000085276	285	308	387	232	269	335
## ENSG00000281137	0	0	0	0	0	0
## ENSG00000184378	47	43	41	50	50	53
## ENSG00000085274	174	206	262	193	212	265
## ENSG00000171757	10	9	12	4	8	10
## ENSG00000188306	1	0	0	0	0	0
## ENSG00000114248	0	0	0	0	0	0
## ENSG00000187033	0	0	0	0	0	0
## ENSG00000008952	2108	2485	3158	2989	3423	3965
## ENSG00000173890	5	1	4	1	1	3
## ENSG00000173889	462	610	695	600	652	742
## ENSG00000163558	1116	1267	1566	1561	1857	1923
## ENSG00000136603	713	814	942	1140	1273	1661
## ENSG00000013297	5587	6163	7913	789	1226	914
## ENSG00000013293	265	325	385	29	46	27
## ENSG00000163584	434	486	569	373	440	451
## ENSG00000163577	342	402	473	86	127	156
## ENSG00000163581	0	0	0	0	0	0
## ENSG00000154310	434	466	608	166	178	204
## ENSG00000075651	182	200	226	260	285	300
## ENSG00000186329	0	0	0	0	0	0
## ENSG00000075420	3693	4246	5203	4073	4489	5222
## ENSG00000121853	0	0	0	0	0	0
## ENSG00000121858	0	3	3	3	0	3
## ENSG00000144959	997	1187	1556	360	426	453
## ENSG00000114346	749	907	1167	503	594	713
## ENSG00000144962	0	0	0	0	0	0
## ENSG00000169760	63	67	70	84	121	104
## ENSG00000177694	306	373	458	140	172	185
## ENSG00000177565	1008	1041	1364	952	1193	1311
## ENSG00000197584	1	0	0	0	0	0
## ENSG00000275163	0	0	0	0	0	0
## ENSG00000172667	2308	2852	3317	5306	6017	7596
## ENSG00000121879	623	704	884	1126	1294	1626
## ENSG00000171121	4	3	8	6	13	7
## ENSG00000121864	267	337	440	224	241	296
## ENSG00000171109	682	762	929	629	806	865
## ENSG00000114450	1004	1256	1458	1069	1307	1497

## ENSG00000136518	559	612	692	238	231	299
## ENSG00000136522	402	503	578	452	495	571
## ENSG00000136521	461	515	614	487	556	578
## ENSG00000058056	450	548	696	213	261	294
## ENSG00000114757	1	0	3	2	2	4
## ENSG00000163728	345	343	433	503	623	746
## ENSG00000145075	22	25	30	34	46	42
## ENSG00000114416	1861	2023	2487	2009	2285	2688
## ENSG00000205981	142	170	211	103	97	112
## ENSG00000181449	0	0	0	0	0	1
## ENSG00000058063	800	956	1176	934	1092	1198
## ENSG00000043093	437	520	664	594	680	883
## ENSG00000078070	229	238	295	292	304	400
## ENSG00000078081	0	1	2	0	1	0
## ENSG00000053524	0	1	0	1	1	0
## ENSG00000176597	64	62	81	60	84	116
## ENSG00000172578	0	0	0	0	1	0
## ENSG00000114796	178	151	240	903	981	1267
## ENSG00000163872	882	962	1153	955	1030	1269
## ENSG00000180834	60	55	69	27	41	42
## ENSG00000175193	381	508	611	508	595	607
## ENSG00000114770	460	476	658	1107	1170	1559
## ENSG00000186090	0	0	0	0	0	0
## ENSG00000178084	0	0	0	0	0	0
## ENSG00000186038	0	0	0	0	0	0
## ENSG00000145191	465	541	755	507	571	692
## ENSG00000161202	1364	1469	1863	1990	2158	2531
## ENSG00000161203	9544	10732	14047	9782	11000	12523
## ENSG00000161204	673	780	960	867	941	1139
## ENSG00000145198	2	1	1	0	1	3
## ENSG00000214160	572	570	813	891	922	1097
## ENSG00000145194	63	85	79	132	129	173
## ENSG00000163888	6	4	13	12	12	17
## ENSG00000175166	8945	10198	13432	9830	11128	12909
## ENSG00000114867	9959	11294	14815	9500	10503	12066
## ENSG00000175182	107	122	176	124	139	177
## ENSG00000114859	30	45	70	108	82	140
## ENSG00000163882	256	277	361	440	443	601
## ENSG00000090534	0	0	0	0	0	0
## ENSG00000090539	1	1	3	1	3	0
## ENSG00000182580	97	60	97	40	61	60
## ENSG00000177383	274	343	414	480	516	591
## ENSG00000156931	575	644	757	830	868	1107
## ENSG00000187068	39	44	57	17	31	16
## ENSG00000113790	35	51	60	15	28	30
## ENSG00000073803	199	245	266	202	255	293
## ENSG00000163900	218	255	335	275	299	388
## ENSG00000163898	25	26	43	4	9	6
## ENSG00000163904	534	587	816	432	562	608
## ENSG00000073792	1802	2084	2635	1799	1987	2273
## ENSG00000136527	1458	1837	2219	1127	1335	1488
## ENSG00000244405	894	1001	1336	296	311	329
## ENSG00000058866	33	35	38	5	15	16
## ENSG00000213139	5	8	6	6	4	4

## ENSG00000113838	125	133	164	75	77	103
## ENSG00000090520	1296	1473	1806	2175	2338	2795
## ENSG00000145192	0	1	0	0	0	0
## ENSG00000090512	0	0	0	0	0	0
## ENSG00000113905	0	0	0	0	0	0
## ENSG00000113889	0	0	0	0	0	0
## ENSG00000156976	2104	2063	2870	4320	4591	5395
## ENSG00000163918	150	175	205	69	97	94
## ENSG00000181092	0	0	0	1	0	0
## ENSG00000073849	105	91	144	188	206	207
## ENSG00000163923	112	138	148	34	28	19
## ENSG00000175077	0	0	0	0	0	0
## ENSG00000127241	284	251	328	150	214	221
## ENSG00000136514	0	0	0	0	0	2
## ENSG00000157005	0	0	0	0	0	0
## ENSG00000198471	0	0	0	0	0	0
## ENSG00000113916	330	373	505	362	418	479
## ENSG00000145012	2776	3311	3439	2125	2493	2566
## ENSG00000188001	0	0	2	0	0	1
## ENSG00000073282	0	0	0	0	0	0
## ENSG00000090530	2620	3023	3804	1653	1917	2121
## ENSG00000163347	1233	1524	1818	2165	2447	3053
## ENSG00000113946	5	4	8	10	6	17
## ENSG00000198398	0	0	0	0	0	0
## ENSG00000196083	127	129	179	448	468	556
## ENSG00000205835	8	8	15	4	5	5
## ENSG00000188729	1	4	2	1	1	0
## ENSG00000188958	14	9	9	3	12	9
## ENSG00000152492	2755	3494	4310	3914	4469	5184
## ENSG00000253548	0	0	0	0	0	0
## ENSG00000114279	0	0	0	0	1	1
## ENSG00000180611	217	295	337	85	113	82
## ENSG00000127252	3	2	6	0	3	2
## ENSG00000187527	0	0	0	0	0	0
## ENSG00000127249	0	0	1	1	0	1
## ENSG00000198836	1087	1311	1692	760	976	1075
## ENSG00000114315	33	25	32	208	221	264
## ENSG00000178772	1	0	5	0	0	1
## ENSG00000172061	452	564	763	181	215	239
## ENSG00000178732	1	1	3	1	4	5
## ENSG00000133657	3735	4523	5445	9546	10489	13538
## ENSG00000145014	242	255	354	466	506	652
## ENSG00000041802	594	679	839	680	755	905
## ENSG00000185112	151	179	261	1223	1244	1709
## ENSG00000173950	456	471	604	546	629	758
## ENSG00000114331	986	1187	1491	1798	2163	2568
## ENSG00000184203	620	645	806	778	934	1141
## ENSG00000189058	1	3	3	5	6	1
## ENSG00000176945	0	0	0	0	2	3
## ENSG00000145113	0	0	0	0	0	0
## ENSG00000061938	386	390	589	375	386	424
## ENSG00000072274	4539	5304	6593	5130	5934	6744
## ENSG00000163958	0	0	0	0	0	0
## ENSG00000163959	53	50	62	51	51	76

## ENSG00000161217	1812	2101	2532	1721	2038	2264
## ENSG00000272741	0	0	0	0	0	0
## ENSG00000213123	11	8	12	4	12	15
## ENSG00000273331	0	0	0	0	0	0
## ENSG00000145107	0	0	0	0	0	1
## ENSG00000163960	806	946	1099	838	964	1103
## ENSG00000163961	307	332	427	466	538	610
## ENSG00000214097	0	1	0	1	0	0
## ENSG00000185798	62	104	103	91	85	108
## ENSG00000174013	181	290	320	284	288	353
## ENSG00000174004	8	15	9	50	45	49
## ENSG00000163964	143	160	212	238	249	331
## ENSG00000174007	40	39	48	86	84	122
## ENSG00000180370	1804	2117	2561	2884	3276	4020
## ENSG00000119231	640	681	913	1044	1132	1290
## ENSG00000114503	1154	1286	1638	1878	2043	2485
## ENSG00000270170	114	155	182	238	250	347
## ENSG00000119227	12	16	9	16	11	15
## ENSG00000163975	13	9	26	10	9	17
## ENSG00000075711	804	898	1194	773	991	1104
## ENSG00000161267	34	30	41	20	41	46
## ENSG00000145016	369	457	575	496	560	672
## ENSG00000122068	1292	1624	1879	916	1136	1246
## ENSG00000186001	582	681	837	744	785	940
## ENSG00000114473	49	58	80	80	63	81
## ENSG00000182899	3269	3908	4490	3846	4144	4825
## ENSG00000185621	146	133	177	185	204	228
## ENSG00000272602	42	44	53	57	50	48
## ENSG00000250312	37	42	44	46	54	80
## ENSG00000186777	0	2	1	1	0	1
## ENSG00000131127	43	34	43	58	60	76
## ENSG00000182903	124	142	183	185	217	220
## ENSG00000174227	656	681	896	853	974	1151
## ENSG00000133256	0	0	2	1	1	0
## ENSG00000169020	283	288	372	270	303	353
## ENSG00000215375	70	74	74	73	84	65
## ENSG00000169026	4	4	9	7	8	12
## ENSG00000185619	793	951	1165	1567	1734	2042
## ENSG00000168993	2	3	4	4	4	6
## ENSG00000178950	1114	1289	1609	1739	1807	2202
## ENSG00000127419	218	234	321	232	258	301
## ENSG00000145214	362	466	632	732	814	1043
## ENSG00000145217	26	42	52	48	43	49
## ENSG00000127415	140	166	219	364	363	442
## ENSG00000127418	1117	1189	1645	1918	2120	2636
## ENSG00000178222	0	2	5	2	5	5
## ENSG00000159674	2812	3248	3924	6581	7169	8190
## ENSG00000159692	1038	1201	1523	1466	1679	1982
## ENSG00000090316	933	1063	1339	974	1134	1328
## ENSG00000163945	87	124	118	118	151	174
## ENSG00000179979	53	70	77	97	100	128
## ENSG00000235608	0	0	0	0	0	0
## ENSG00000174137	23	32	37	19	22	23
## ENSG00000163950	553	676	834	840	931	1087

## ENSG00000168936	505	573	785	1182	1215	1427
## ENSG00000013810	684	860	1193	144	186	192
## ENSG00000068078	11	19	15	10	16	14
## ENSG00000168924	1000	1185	1453	1170	1232	1563
## ENSG00000109685	1535	1857	2348	544	577	606
## ENSG00000185049	193	256	335	195	178	225
## ENSG00000243449	202	217	289	383	416	535
## ENSG00000185818	3	7	4	29	24	20
## ENSG00000130997	17	8	24	22	27	37
## ENSG00000214367	112	144	175	142	141	200
## ENSG00000123933	1612	1762	2286	2350	2578	3003
## ENSG00000159733	23	20	33	43	33	55
## ENSG00000249428	0	0	0	0	0	0
## ENSG00000063978	935	1124	1358	1322	1563	1787
## ENSG00000125386	426	443	595	555	589	679
## ENSG00000168884	463	473	604	625	699	849
## ENSG00000087266	479	539	730	596	756	860
## ENSG00000087274	4009	4691	5961	4672	5272	6070
## ENSG00000109736	858	1008	1274	1105	1184	1386
## ENSG00000087269	751	845	992	813	870	1014
## ENSG00000125388	67	96	72	102	121	120
## ENSG00000197386	1726	2083	2331	2341	2568	2797
## ENSG00000188981	1	1	2	1	1	3
## ENSG00000159788	239	298	379	430	439	552
## ENSG00000109758	0	0	1	1	1	0
## ENSG00000175920	1	1	0	1	1	1
## ENSG00000163956	1504	1629	2153	2551	2745	3163
## ENSG00000280230	0	0	0	0	0	0
## ENSG00000184160	3	7	9	4	5	3
## ENSG00000163982	0	0	0	0	0	0
## ENSG00000132406	142	191	183	192	249	275
## ENSG00000145220	200	215	284	143	138	195
## ENSG00000168826	39	45	59	71	56	66
## ENSG00000168824	20	22	20	172	149	247
## ENSG00000168818	337	408	461	440	563	653
## ENSG00000163132	59	78	88	84	93	136
## ENSG00000170891	46	54	77	9	13	10
## ENSG00000152953	188	214	263	356	372	403
## ENSG00000173040	76	100	122	138	137	142
## ENSG00000072840	1062	1324	1560	1168	1341	1509
## ENSG00000072832	414	427	553	499	581	598
## ENSG00000181215	0	0	0	0	0	0
## ENSG00000152969	0	1	0	0	0	1
## ENSG00000109501	1360	1579	2037	1649	1969	2170
## ENSG00000074211	1	2	5	2	1	3
## ENSG00000013288	1607	1780	2305	2433	2570	3172
## ENSG00000179010	3977	4536	5807	5373	5789	7042
## ENSG00000163993	0	0	0	0	0	0
## ENSG00000178988	427	613	733	747	895	1076
## ENSG00000186222	165	191	228	299	342	391
## ENSG00000170871	749	890	1084	1397	1491	1829
## ENSG00000132405	342	338	483	469	441	574
## ENSG00000173013	22	28	29	18	27	36
## ENSG00000173011	356	428	584	495	536	647

## ENSG00000109519	500	512	687	548	583	767
## ENSG00000184985	49	45	68	61	70	67
## ENSG00000178597	0	0	0	0	0	0
## ENSG00000196526	4355	5059	6294	3750	4549	4859
## ENSG00000163995	1	2	1	2	1	0
## ENSG00000125089	41	36	45	20	36	27
## ENSG00000281359	0	0	0	0	0	0
## ENSG00000170801	163	162	219	210	212	261
## ENSG00000087008	324	371	514	275	299	324
## ENSG00000155275	106	113	132	116	121	143
## ENSG00000155269	0	0	2	1	2	0
## ENSG00000109625	9	5	4	6	9	8
## ENSG00000215612	1	0	0	0	1	0
## ENSG00000229924	0	0	0	0	0	0
## ENSG00000231396	0	0	0	0	0	0
## ENSG00000233136	0	0	0	0	0	0
## ENSG00000227551	0	0	0	0	0	0
## ENSG00000232399	0	0	0	0	0	0
## ENSG00000223569	0	0	0	0	0	0
## ENSG00000249104	0	0	0	0	0	0
## ENSG00000250844	0	0	0	0	0	0
## ENSG00000248920	0	0	0	0	0	0
## ENSG00000250745	0	0	0	0	0	0
## ENSG00000249811	0	0	0	0	0	0
## ENSG00000248933	0	0	0	0	0	0
## ENSG00000250913	0	0	0	0	0	0
## ENSG00000232264	0	0	0	0	0	0
## ENSG00000230430	0	0	0	0	0	0
## ENSG00000229579	0	0	0	0	0	0
## ENSG00000227140	0	0	0	0	0	0
## ENSG00000235780	0	0	0	0	0	0
## ENSG00000231051	0	0	0	0	0	0
## ENSG00000231637	0	0	0	0	0	0
## ENSG00000228856	0	0	0	0	0	0
## ENSG00000186146	0	0	0	0	0	0
## ENSG00000109667	7	8	12	17	15	13
## ENSG00000169676	0	0	0	0	0	0
## ENSG00000071127	11503	13352	17313	6876	7874	8798
## ENSG00000178163	489	486	658	451	567	585
## ENSG00000109684	1	0	0	0	0	0
## ENSG00000002587	1	1	1	2	2	3
## ENSG00000157869	110	171	195	161	160	209
## ENSG00000109705	2	2	1	4	6	9
## ENSG00000038219	1178	1175	1487	2159	2258	2722
## ENSG00000281620	0	0	0	0	0	0
## ENSG00000137449	625	753	890	488	651	586
## ENSG00000163145	12	5	7	8	7	6
## ENSG00000048342	353	414	488	362	450	444
## ENSG00000118564	544	615	707	406	475	563
## ENSG00000237765	209	225	316	367	398	483
## ENSG00000109743	66	109	123	87	117	132
## ENSG00000004468	0	0	0	0	0	0
## ENSG00000137440	0	0	0	1	0	0
## ENSG00000137441	0	0	1	0	0	0

## ENSG00000007062	0	0	0	0	0	0
## ENSG00000169762	168	192	233	148	157	182
## ENSG00000169744	218	227	349	196	253	237
## ENSG00000151552	258	277	371	142	167	201
## ENSG00000249581	0	0	0	0	0	0
## ENSG00000002549	851	1002	1279	1111	1330	1460
## ENSG00000118579	488	545	702	1063	1106	1359
## ENSG00000047662	3	5	10	5	8	3
## ENSG00000163257	297	392	463	280	345	414
## ENSG00000109805	465	564	717	66	100	79
## ENSG00000178177	111	114	195	218	250	277
## ENSG00000145147	836	952	1194	152	183	185
## ENSG00000163138	87	75	119	69	88	125
## ENSG00000185774	9	10	11	7	17	9
## ENSG00000152990	844	880	1119	2355	2394	3412
## ENSG00000109819	5	4	8	8	12	22
## ENSG00000109606	2126	2476	3192	1960	2316	2719
## ENSG00000109610	57	61	96	73	70	116
## ENSG00000181982	228	265	333	148	161	178
## ENSG00000153012	0	0	0	0	0	0
## ENSG00000109618	71	82	72	76	91	121
## ENSG00000281028	0	0	0	0	0	0
## ENSG00000038210	258	311	346	165	224	195
## ENSG00000168228	78	123	136	68	82	82
## ENSG00000053900	215	245	326	279	343	331
## ENSG00000157765	0	0	0	0	0	0
## ENSG00000091490	1021	1099	1389	842	833	1163
## ENSG00000250317	149	169	180	152	195	190
## ENSG00000168214	2407	2773	3445	3132	3513	4312
## ENSG00000163394	0	0	0	0	1	1
## ENSG00000109680	219	214	288	311	324	393
## ENSG00000109689	382	392	546	532	609	781
## ENSG00000169851	1238	1346	1722	447	581	574
## ENSG00000047365	16	18	19	10	12	15
## ENSG00000197057	0	0	0	0	0	0
## ENSG00000174145	0	0	0	0	0	0
## ENSG00000154274	0	0	0	0	1	1
## ENSG00000181826	71	84	97	202	176	261
## ENSG00000169299	302	418	475	278	301	311
## ENSG00000279386	1	2	0	1	1	1
## ENSG00000065882	715	846	1129	512	528	656
## ENSG00000250254	0	0	0	0	0	0
## ENSG00000109787	611	661	800	938	1101	1314
## ENSG00000174123	0	0	0	0	0	0
## ENSG00000174125	7	11	12	3	5	4
## ENSG00000174130	87	104	104	49	55	61
## ENSG00000197712	3313	3694	4720	3299	3576	4119
## ENSG00000121895	30	28	40	161	134	224
## ENSG00000109790	1916	2155	2638	4629	4713	6499
## ENSG00000157796	184	207	293	414	448	528
## ENSG00000035928	653	764	988	409	517	552
## ENSG00000134962	2	2	2	3	2	0
## ENSG00000163682	4814	5434	6470	5003	5515	6099
## ENSG00000121897	67	61	75	57	55	85

## ENSG00000109814	1228	1526	1921	1687	1816	2109
## ENSG00000163683	643	744	858	1174	1356	1477
## ENSG00000078140	1125	1358	1550	1042	1214	1423
## ENSG00000121892	1338	1562	1942	1578	1753	2054
## ENSG00000078177	81	113	118	64	74	75
## ENSG00000168421	0	0	0	0	0	0
## ENSG00000174343	0	2	0	0	1	0
## ENSG00000163694	14	12	23	23	21	28
## ENSG00000179299	1	0	0	2	0	0
## ENSG00000163697	805	954	1173	517	674	670
## ENSG00000154277	8328	8976	11643	8917	9906	11637
## ENSG00000064042	26	44	33	77	83	104
## ENSG00000109132	0	0	0	0	0	0
## ENSG00000109133	668	735	913	1148	1221	1630
## ENSG00000182308	0	1	0	2	3	11
## ENSG00000014824	1297	1593	1804	1470	1788	2090
## ENSG00000188848	0	1	0	5	2	4
## ENSG00000178343	63	46	52	40	49	68
## ENSG00000124406	17	19	33	106	81	117
## ENSG00000215203	0	0	0	0	0	0
## ENSG00000183783	2	0	3	16	19	20
## ENSG00000177752	0	0	0	0	0	1
## ENSG00000151806	367	434	537	402	452	537
## ENSG00000163281	246	303	363	446	503	549
## ENSG00000163285	0	0	0	0	0	0
## ENSG00000151834	53	70	86	953	930	1641
## ENSG00000170516	0	0	0	0	0	0
## ENSG00000109158	9	11	13	49	51	72
## ENSG00000163288	75	74	99	116	132	174
## ENSG00000169019	383	475	493	374	445	523
## ENSG00000145246	1212	1428	1735	1546	1832	2027
## ENSG00000145244	139	163	191	92	134	118
## ENSG00000170448	194	241	269	138	163	190
## ENSG00000163293	9	12	13	20	34	39
## ENSG00000198515	2	1	0	0	0	1
## ENSG00000074966	0	1	0	1	1	0
## ENSG00000135605	13	23	20	5	14	13
## ENSG00000109171	931	1079	1354	1083	1250	1527
## ENSG00000145248	0	0	1	0	1	1
## ENSG00000182223	0	0	0	0	0	0
## ENSG00000075539	892	990	1151	1004	1125	1322
## ENSG00000109180	1118	1268	1567	1789	2016	2387
## ENSG00000145247	115	149	186	122	152	221
## ENSG00000109182	0	0	0	0	0	0
## ENSG00000109184	574	651	855	695	816	908
## ENSG00000188993	2	3	4	13	9	14
## ENSG00000163069	1408	1712	2108	1796	2032	2468
## ENSG00000163071	170	212	281	392	439	489
## ENSG00000109189	887	1054	1252	2832	3123	3956
## ENSG00000226887	1	2	3	21	21	29
## ENSG00000128045	17	17	14	164	177	188
## ENSG00000184178	472	512	726	500	612	687
## ENSG00000145216	290	327	414	517	560	670
## ENSG00000282278	0	0	0	0	0	0



## ENSG00000072201	22	19	27	54	54	73
## ENSG00000109220	358	431	562	738	801	1018
## ENSG00000180613	0	0	0	3	0	1
## ENSG00000134853	3142	3587	4545	5945	6820	8033
## ENSG00000157404	205	231	286	154	236	174
## ENSG00000128052	1	0	1	341	225	455
## ENSG00000128039	135	152	207	144	153	194
## ENSG00000134851	1363	1697	2028	682	655	789
## ENSG00000134852	814	912	1174	680	838	984
## ENSG00000163440	0	0	0	0	0	0
## ENSG00000109255	0	0	0	1	0	0
## ENSG00000090989	543	613	800	553	676	760
## ENSG00000174799	149	170	206	201	239	288
## ENSG00000109265	32	38	45	74	70	93
## ENSG00000157426	109	107	149	132	140	137
## ENSG00000128059	276	346	417	212	254	286
## ENSG00000128050	1935	2336	2938	1149	1449	1504
## ENSG00000174780	2426	2845	3686	1030	1281	1254
## ENSG00000196503	4	4	3	5	11	6
## ENSG00000249693	2	5	8	2	5	6
## ENSG00000171476	19	18	23	2	3	3
## ENSG00000128040	0	0	0	0	0	0
## ENSG00000084093	743	890	1039	940	1188	1364
## ENSG00000084092	299	296	395	508	617	764
## ENSG00000047315	1736	2193	2751	2435	2941	3342
## ENSG00000163453	3529	3800	4868	5770	6460	7095
## ENSG00000150471	21	48	53	607	672	936
## ENSG00000205678	0	0	0	0	0	0
## ENSG00000145242	9	0	6	48	56	56
## ENSG00000145241	117	150	155	133	188	192
## ENSG00000035720	0	0	0	0	0	0
## ENSG00000033178	916	985	1195	1131	1243	1441
## ENSG00000109163	1	1	1	3	0	0
## ENSG00000153802	0	0	0	0	2	0
## ENSG00000187054	0	0	0	0	0	0
## ENSG00000198092	0	0	0	0	0	0
## ENSG00000185873	0	0	0	0	0	0
## ENSG00000083896	678	777	940	782	953	1145
## ENSG00000087128	0	0	0	0	1	0
## ENSG00000197888	0	0	0	0	0	0
## ENSG00000196620	0	0	0	0	0	0
## ENSG00000109181	0	0	0	0	0	0
## ENSG00000135220	0	0	0	0	0	0
## ENSG00000213759	0	0	0	0	0	0
## ENSG00000171234	0	1	2	2	2	2
## ENSG00000135226	0	0	0	0	0	0
## ENSG00000156096	0	0	0	0	0	1
## ENSG00000173610	0	0	0	0	0	0
## ENSG00000270386	0	0	0	0	0	0
## ENSG00000271271	0	0	0	0	0	0
## ENSG00000173597	5	4	4	4	4	2
## ENSG00000109193	0	0	0	0	0	0
## ENSG00000126545	0	0	0	0	0	0
## ENSG00000135222	0	0	0	0	0	0

## ENSG00000126549	0	0	0	0	0	0
## ENSG00000279857	0	0	0	0	0	0
## ENSG00000205649	0	0	0	0	0	0
## ENSG00000126550	0	0	0	0	0	0
## ENSG00000187533	0	0	0	0	0	0
## ENSG00000109205	0	0	0	0	0	0
## ENSG00000181617	0	0	0	0	0	0
## ENSG00000171209	1	0	0	0	0	0
## ENSG00000145309	0	0	0	0	0	0
## ENSG00000109208	0	0	0	0	0	0
## ENSG00000171201	0	0	0	0	0	0
## ENSG00000171199	0	0	0	0	0	0
## ENSG00000171195	0	0	0	0	1	0
## ENSG00000187689	0	0	0	0	0	0
## ENSG00000178522	0	0	0	0	0	0
## ENSG00000132464	0	2	6	0	1	4
## ENSG00000132465	5	1	4	4	4	2
## ENSG00000132467	645	736	914	782	872	1025
## ENSG00000018189	378	421	508	387	464	494
## ENSG00000132463	1921	2285	2890	1969	2325	2661
## ENSG00000173542	786	897	1064	1273	1510	1767
## ENSG00000156136	221	256	352	278	307	395
## ENSG00000080493	456	576	714	921	1139	1235
## ENSG00000145321	0	0	0	0	0	0
## ENSG00000056291	0	0	0	0	0	1
## ENSG00000156140	45	71	74	77	77	110
## ENSG00000163626	179	202	238	202	248	249
## ENSG00000132466	2204	2445	3028	3175	3166	4011
## ENSG00000163631	0	0	0	0	0	0
## ENSG00000081051	10	5	17	0	2	0
## ENSG00000079557	0	0	0	0	0	0
## ENSG00000169435	0	1	0	0	1	0
## ENSG00000169429	52	77	74	876	649	1334
## ENSG00000124875	1	1	2	28	27	42
## ENSG00000109272	0	0	0	3	1	4
## ENSG00000163739	3	0	10	164	133	278
## ENSG00000163737	0	0	0	0	0	1
## ENSG00000163736	0	0	0	0	0	0
## ENSG00000163735	7	3	12	46	31	73
## ENSG00000163734	4	0	1	66	52	94
## ENSG00000081041	1	2	2	18	12	30
## ENSG00000163738	39	49	63	51	78	60
## ENSG00000182585	0	0	0	0	0	0
## ENSG00000124882	49	60	70	789	786	1328
## ENSG00000109321	26	53	46	7461	6492	11299
## ENSG00000174808	1	1	0	1	0	0
## ENSG00000169116	9	14	10	47	48	65
## ENSG00000163743	195	255	304	178	263	288
## ENSG00000174796	161	180	189	201	190	243
## ENSG00000174792	1	0	1	2	2	1
## ENSG00000138769	2	1	1	1	3	2
## ENSG00000138757	3287	3893	4671	5314	5938	6956
## ENSG00000138768	2852	3026	3744	2090	2336	2679
## ENSG00000156194	0	0	0	0	0	0

## ENSG00000138744	258	291	356	153	221	233
## ENSG00000198301	456	516	636	659	719	825
## ENSG00000279909	0	0	0	0	0	0
## ENSG00000280671	0	0	0	0	0	0
## ENSG00000138755	0	0	0	0	0	0
## ENSG00000156219	0	2	3	2	2	2
## ENSG00000169245	4	3	10	8	6	11
## ENSG00000169248	2	0	1	1	0	0
## ENSG00000138750	340	416	455	339	379	392
## ENSG00000138760	3975	4496	5717	6357	6979	8044
## ENSG00000189157	1	0	2	1	0	1
## ENSG00000272414	0	0	0	0	0	0
## ENSG00000118804	23	14	12	21	15	26
## ENSG00000163749	0	2	1	0	0	2
## ENSG00000138771	1022	1249	1552	1145	1324	1363
## ENSG00000186212	1	3	1	4	4	2
## ENSG00000138758	13214	15640	18887	15521	18138	20070
## ENSG00000118816	2804	3111	4052	3251	3685	4343
## ENSG00000138764	348	341	410	1366	1523	1797
## ENSG00000156234	0	0	0	0	0	0
## ENSG00000138767	171	249	249	143	167	214
## ENSG00000169288	228	242	325	128	171	191
## ENSG00000138759	2	6	3	10	8	6
## ENSG00000138772	24	44	55	11	8	14
## ENSG00000138756	181	271	325	241	262	315
## ENSG00000163291	288	403	486	644	667	898
## ENSG00000156269	0	0	0	0	0	0
## ENSG00000196475	0	0	0	0	0	0
## ENSG00000163297	2824	3312	4294	3565	3814	4697
## ENSG00000152784	414	518	715	201	212	253
## ENSG00000138675	2197	3018	3668	627	882	807
## ENSG00000197826	9	8	10	6	6	2
## ENSG00000152785	5	4	5	6	6	4
## ENSG00000138669	48	68	89	133	132	178
## ENSG00000138670	0	3	2	1	0	1
## ENSG00000138668	1954	2306	2790	1718	2056	2370
## ENSG00000152795	1774	2121	2632	1924	2417	2540
## ENSG00000145293	438	519	686	638	717	826
## ENSG00000249242	1	3	4	5	10	10
## ENSG00000145284	318	380	540	329	383	427
## ENSG00000138674	6394	7216	9239	9138	10671	11595
## ENSG00000168152	19	23	33	32	24	37
## ENSG00000189308	198	267	349	193	279	303
## ENSG00000138663	582	723	893	502	524	652
## ENSG00000145287	2	0	0	0	0	0
## ENSG00000173085	99	97	147	102	79	109
## ENSG00000173083	1	3	7	0	6	4
## ENSG00000163312	103	106	150	143	144	153
## ENSG00000163319	86	118	152	121	128	152
## ENSG00000163322	98	110	138	102	128	145
## ENSG00000138678	61	60	90	142	138	219
## ENSG00000163623	12	4	10	7	7	7
## ENSG00000163624	2	1	3	3	3	1
## ENSG00000163625	962	1063	1155	1828	1938	2314

## ENSG00000138639	355	454	571	486	568	617
## ENSG00000109339	49	58	57	84	110	131
## ENSG00000163629	1170	1298	1514	1779	1967	2227
## ENSG00000145283	2	1	0	3	1	1
## ENSG00000163633	26	28	40	25	20	25
## ENSG00000172493	606	782	825	598	643	752
## ENSG00000145332	243	318	384	289	322	376
## ENSG00000170509	0	1	0	0	1	4
## ENSG00000198189	163	213	253	415	445	574
## ENSG00000170502	310	336	444	458	513	616
## ENSG00000152583	1	0	0	0	1	0
## ENSG00000152591	0	0	0	0	0	0
## ENSG00000152592	0	0	0	0	0	0
## ENSG00000029559	0	0	0	0	0	0
## ENSG00000152595	0	0	0	0	1	1
## ENSG00000118785	8	12	20	24	39	43
## ENSG00000118762	1088	1259	1672	1655	1863	2333
## ENSG00000118777	44	57	47	316	300	457
## ENSG00000163644	130	170	219	189	255	213
## ENSG00000138642	19	20	20	51	61	73
## ENSG00000138646	5	5	2	11	6	9
## ENSG00000145337	0	0	0	0	0	0
## ENSG00000138641	469	595	717	933	1089	1255
## ENSG00000255072	0	0	0	0	0	0
## ENSG00000177432	216	250	299	157	201	216
## ENSG00000138640	237	276	386	370	392	450
## ENSG00000180346	137	182	240	144	137	198
## ENSG00000185477	0	0	0	3	7	6
## ENSG00000145335	18	19	17	77	77	106
## ENSG00000138722	0	0	0	0	0	0
## ENSG00000184305	0	0	0	0	0	0
## ENSG00000152208	0	0	0	1	0	0
## ENSG00000172238	0	0	0	0	0	0
## ENSG00000163104	622	727	893	909	1091	1211
## ENSG00000163106	0	0	0	0	0	0
## ENSG00000163110	1981	2455	2806	731	960	1018
## ENSG00000138696	17	27	26	46	50	58
## ENSG00000182168	2	3	3	11	7	14
## ENSG00000163114	0	0	0	0	0	0
## ENSG00000163116	1	3	1	0	1	0
## ENSG00000138698	988	1189	1456	668	804	930
## ENSG00000168785	1783	2081	2747	2058	2295	2607
## ENSG00000151247	619	767	849	615	700	772
## ENSG00000164024	673	790	1066	648	764	884
## ENSG00000197894	2023	2300	2891	2894	3249	3657
## ENSG00000198099	0	0	0	0	1	0
## ENSG00000172955	2	5	3	0	1	0
## ENSG00000187758	0	0	0	0	0	0
## ENSG00000196616	2	1	2	0	1	0
## ENSG00000248144	1	0	0	0	0	0
## ENSG00000196344	0	0	0	0	0	0
## ENSG00000138813	0	0	0	0	0	0
## ENSG00000145331	48	71	102	95	116	113
## ENSG00000138823	0	0	1	1	0	1

## ENSG00000248713	0	0	0	0	0	0
## ENSG00000070190	0	0	0	0	0	0
## ENSG00000109270	327	385	458	537	614	672
## ENSG00000164031	617	696	909	1134	1294	1639
## ENSG00000164032	2282	2923	3587	1720	1964	2212
## ENSG00000145358	83	111	144	162	220	226
## ENSG00000164035	0	0	0	0	0	0
## ENSG00000138814	1161	1469	1661	1154	1385	1575
## ENSG00000153064	5	4	8	5	3	3
## ENSG00000138821	5	8	17	17	11	18
## ENSG00000109320	470	525	639	615	651	811
## ENSG00000109323	497	536	654	1810	1772	2395
## ENSG00000109332	3564	4068	5099	5895	6579	7907
## ENSG00000145354	176	211	269	321	366	423
## ENSG00000164037	3	5	2	7	4	11
## ENSG00000164038	186	182	259	442	454	674
## ENSG00000164039	125	161	197	286	389	423
## ENSG00000138778	587	701	944	130	138	142
## ENSG00000169836	0	0	0	0	0	0
## ENSG00000168772	0	1	2	1	3	0
## ENSG00000168769	388	458	554	561	639	761
## ENSG00000138777	341	430	496	477	552	675
## ENSG00000236699	3	2	0	2	4	1
## ENSG00000138785	162	188	255	158	206	237
## ENSG00000138780	173	237	263	121	120	132
## ENSG00000168743	0	0	0	0	1	0
## ENSG00000145348	273	319	366	411	500	566
## ENSG00000164022	561	622	696	489	586	687
## ENSG00000155011	11	19	13	1	1	0
## ENSG00000138801	976	1178	1464	1014	1216	1263
## ENSG00000164023	569	679	830	208	331	267
## ENSG00000155016	315	356	448	128	135	164
## ENSG00000138796	230	249	310	137	194	164
## ENSG00000138795	20	19	25	286	266	420
## ENSG00000109475	2360	2742	3302	2642	3007	3307
## ENSG00000198856	1791	2072	2595	1120	1389	1510
## ENSG00000164089	0	0	0	0	0	0
## ENSG00000188517	4	8	2	2	2	1
## ENSG00000138802	750	940	1121	792	936	1094
## ENSG00000005059	141	165	205	62	62	87
## ENSG00000138794	143	160	195	140	166	214
## ENSG00000123739	334	405	512	362	419	466
## ENSG00000205403	1	3	1	2	1	2
## ENSG00000109534	242	310	285	234	267	321
## ENSG00000180245	1	1	0	1	0	1
## ENSG00000183423	0	0	1	2	0	2
## ENSG00000138798	35	32	41	13	10	16
## ENSG00000170522	643	774	1003	485	539	616
## ENSG00000138792	3	2	6	1	3	0
## ENSG00000164093	61	53	85	14	23	37
## ENSG00000174749	26	42	44	21	28	26
## ENSG00000138660	159	168	225	249	306	384
## ENSG00000145365	66	79	72	23	24	35
## ENSG00000073331	86	97	108	63	81	74

## ENSG00000178403	0	0	0	0	0	0
## ENSG00000138658	54	79	84	35	38	41
## ENSG00000174720	340	353	463	397	449	526
## ENSG00000145362	64	66	74	19	27	36
## ENSG00000145349	1830	2141	2742	1312	1538	1527
## ENSG00000180801	2070	2589	3164	690	957	879
## ENSG00000174607	0	0	0	0	0	0
## ENSG00000138653	0	0	0	0	0	0
## ENSG00000270394	0	0	0	0	0	0
## ENSG00000174599	47	50	67	57	62	59
## ENSG00000164100	9	4	12	5	3	6
## ENSG00000164099	1797	2058	2657	1728	2137	1934
## ENSG00000145388	217	250	292	258	299	352
## ENSG00000150961	4167	4810	6166	4206	5207	5333
## ENSG00000172403	79	89	123	23	45	26
## ENSG00000172399	8	4	4	1	3	1
## ENSG00000145390	530	584	769	331	437	479
## ENSG00000164096	1334	1639	1853	2057	2285	2643
## ENSG00000145384	0	0	0	0	0	0
## ENSG00000138735	7349	8407	9920	8570	10818	10718
## ENSG00000164109	338	473	555	129	170	194
## ENSG00000138738	90	103	118	70	65	71
## ENSG00000173376	0	0	1	2	3	6
## ENSG00000050730	1	2	2	2	4	13
## ENSG00000186867	0	0	0	0	0	0
## ENSG00000164111	19061	21739	26840	19423	21747	24855
## ENSG00000164112	14	26	23	10	18	17
## ENSG00000123737	324	377	423	182	267	281
## ENSG00000145386	585	739	1013	91	107	103
## ENSG00000138686	313	384	454	256	282	387
## ENSG00000138741	22	20	17	37	38	52
## ENSG00000138688	1626	1571	2052	2290	2563	3015
## ENSG00000164113	0	0	0	0	0	0
## ENSG00000109471	0	0	0	0	0	1
## ENSG00000138684	0	0	0	0	0	0
## ENSG00000181004	46	66	62	117	124	139
## ENSG00000138685	1261	1462	1757	4127	4340	6129
## ENSG00000170917	23	21	27	26	16	25
## ENSG00000145375	106	140	142	125	164	170
## ENSG00000164056	30	26	30	89	141	179
## ENSG00000151458	813	912	1082	1302	1515	1935
## ENSG00000196159	918	1085	1080	761	973	920
## ENSG00000164066	144	168	214	105	133	143
## ENSG00000151475	1	0	0	0	0	0
## ENSG00000164070	127	164	179	206	226	266
## ENSG00000142731	128	166	249	25	43	45
## ENSG00000164073	129	155	204	207	238	246
## ENSG00000164074	58	75	108	74	108	89
## ENSG00000138709	247	306	383	262	319	343
## ENSG00000164040	1378	1614	2020	2043	2471	2731
## ENSG00000077684	580	554	762	192	254	248
## ENSG00000151466	142	180	240	68	82	89
## ENSG00000151470	29	62	70	18	26	35
## ENSG00000138650	185	255	313	155	187	212

## ENSG00000254535	13	14	20	3	3	8
## ENSG00000189184	1513	1580	1953	2702	3138	3387
## ENSG00000151012	1734	2057	2330	5312	5928	7775
## ENSG00000151014	218	194	242	151	166	186
## ENSG00000109381	266	312	346	330	401	396
## ENSG00000137463	112	112	140	28	33	30
## ENSG00000109390	326	375	416	275	318	332
## ENSG00000164134	1236	1480	1790	755	926	999
## ENSG00000172007	117	159	189	144	169	177
## ENSG00000145391	2548	3057	3613	1968	2400	2690
## ENSG00000085871	64	68	77	86	96	120
## ENSG00000196782	114	152	194	272	326	411
## ENSG00000153130	909	1113	1292	1104	1343	1503
## ENSG00000153132	71	91	79	28	37	38
## ENSG00000205301	0	0	0	0	0	0
## ENSG00000179387	342	372	510	500	638	784
## ENSG00000109424	0	0	0	0	0	0
## ENSG00000109436	638	763	975	811	924	1128
## ENSG00000170153	334	380	453	192	261	240
## ENSG00000109445	305	304	412	243	299	358
## ENSG00000164136	66	59	84	41	50	55
## ENSG00000109452	128	159	183	303	322	439
## ENSG00000170185	533	585	722	693	822	964
## ENSG00000109458	168	192	259	396	504	557
## ENSG00000153147	1684	1871	2320	2523	2702	3369
## ENSG00000183090	0	0	0	0	0	2
## ENSG00000197465	6	5	8	4	7	13
## ENSG00000250361	0	0	0	0	0	0
## ENSG00000170180	0	0	0	0	0	0
## ENSG00000164161	173	213	232	113	152	108
## ENSG00000164162	67	87	96	49	69	49
## ENSG00000164163	1392	1747	2111	944	1148	1273
## ENSG00000164164	810	975	1197	874	1043	1265
## ENSG00000170365	102	103	113	135	183	216
## ENSG00000151611	101	107	145	130	134	165
## ENSG00000237136	0	0	0	0	0	0
## ENSG00000151612	432	516	637	365	501	528
## ENSG00000164167	95	96	141	92	99	119
## ENSG00000120519	86	114	122	117	132	142
## ENSG00000151615	0	0	0	0	0	0
## ENSG00000137473	0	0	0	6	4	8
## ENSG00000151617	224	238	282	1088	1213	1434
## ENSG00000164168	659	638	828	605	725	866
## ENSG00000164169	128	143	196	121	140	161
## ENSG00000071205	594	748	859	578	677	749
## ENSG00000151623	115	135	165	45	41	45
## ENSG00000170390	222	252	357	84	114	114
## ENSG00000198589	661	714	799	522	642	647
## ENSG00000181541	167	162	242	32	36	17
## ENSG00000145425	3479	3827	4510	3276	3789	4205
## ENSG00000109686	629	732	886	245	348	335
## ENSG00000189099	0	0	0	0	0	0
## ENSG00000164142	1	3	1	0	0	0
## ENSG00000059691	171	189	260	148	162	210

## ENSG00000109670	201	215	287	273	332	349
## ENSG00000170006	26	39	45	73	81	100
## ENSG00000164144	482	529	684	654	813	926
## ENSG00000169989	0	1	0	1	3	1
## ENSG00000137460	6	9	13	23	18	18
## ENSG00000109654	779	782	1046	1280	1501	1727
## ENSG00000121211	22	24	28	7	6	2
## ENSG00000121210	290	328	431	299	355	414
## ENSG00000137462	1	0	0	3	0	1
## ENSG00000145428	0	0	0	0	0	0
## ENSG00000145423	0	0	0	1	0	0
## ENSG00000197410	0	0	0	3	0	2
## ENSG00000171566	875	1005	1302	850	963	1220
## ENSG00000171564	0	0	0	0	0	0
## ENSG00000171560	0	0	0	0	0	0
## ENSG00000171557	0	0	0	0	0	0
## ENSG00000121207	0	0	1	0	0	0
## ENSG00000151962	0	0	0	0	0	0
## ENSG00000185149	0	0	0	0	0	0
## ENSG00000164114	242	274	354	311	361	432
## ENSG00000164116	0	2	0	3	0	2
## ENSG00000061918	32	26	31	13	14	13
## ENSG00000256394	0	1	0	0	0	0
## ENSG00000151790	1	2	7	2	2	4
## ENSG00000256043	134	177	195	207	279	292
## ENSG00000145431	1100	1237	1599	1316	1714	1929
## ENSG00000109738	89	102	132	114	116	158
## ENSG00000120251	0	0	0	0	0	0
## ENSG00000164125	199	219	240	219	285	261
## ENSG00000164124	13	11	12	11	4	8
## ENSG00000171509	1	0	7	1	1	0
## ENSG00000205208	188	266	347	169	210	221
## ENSG00000171503	277	296	395	196	246	273
## ENSG00000171497	301	316	465	291	315	345
## ENSG00000052795	301	355	464	272	288	326
## ENSG00000164123	0	0	0	0	0	0
## ENSG00000109756	1027	1126	1482	1172	1505	1554
## ENSG00000168843	0	0	0	1	0	0
## ENSG00000145414	152	170	220	170	168	234
## ENSG00000164128	0	0	0	1	1	0
## ENSG00000164129	0	0	0	0	0	0
## ENSG00000151005	0	0	1	0	1	0
## ENSG00000198498	268	304	352	293	344	354
## ENSG00000145416	13	11	20	12	15	23
## ENSG00000248329	0	0	0	0	0	0
## ENSG00000183439	20	18	18	11	15	17
## ENSG00000250486	5	7	7	5	6	4
## ENSG00000176979	0	0	0	0	0	0
## ENSG00000170088	218	264	324	301	360	404
## ENSG00000109466	227	268	333	285	345	386
## ENSG00000052802	699	907	1049	1565	1647	2128
## ENSG00000109472	212	257	301	344	451	488
## ENSG00000038295	0	0	0	0	0	0
## ENSG00000196104	0	0	1	9	4	5



## ENSG00000109511	4	1	2	28	23	22
## ENSG00000137628	95	104	121	198	238	278
## ENSG00000181381	184	198	248	189	248	278
## ENSG00000129116	6229	6913	8574	6852	8916	8873
## ENSG00000145439	141	157	169	138	124	160
## ENSG00000154447	933	1033	1390	445	553	571
## ENSG00000137601	283	337	437	274	333	391
## ENSG00000109572	1030	1181	1387	2459	2546	3277
## ENSG00000056050	175	211	235	97	166	188
## ENSG00000198948	12	13	5	13	17	26
## ENSG00000109576	79	111	145	175	184	231
## ENSG00000174473	0	1	0	0	4	5
## ENSG00000109586	760	884	1128	408	484	515
## ENSG00000164104	826	1037	1284	270	353	379
## ENSG00000164105	81	113	130	105	120	131
## ENSG00000164106	3	3	2	0	1	0
## ENSG00000164107	3	5	6	11	4	6
## ENSG00000164117	141	134	169	179	164	173
## ENSG00000164118	102	137	152	147	159	163
## ENSG00000164120	0	0	0	0	0	0
## ENSG00000145451	0	0	0	0	0	0
## ENSG00000168594	0	0	0	0	0	0
## ENSG00000150625	0	0	0	0	0	0
## ENSG00000150627	3	11	13	4	16	8
## ENSG00000150628	5	7	7	0	0	3
## ENSG00000164122	5	4	8	0	1	2
## ENSG00000129128	2342	2754	3356	2600	3132	3528
## ENSG00000150630	1176	1447	1881	1708	1805	2422
## ENSG00000109674	41	75	70	8	11	4
## ENSG00000038002	162	186	245	146	222	206
## ENSG00000218336	1846	2108	2542	1946	2154	2441
## ENSG00000129187	1298	1373	1866	1354	1624	1745
## ENSG00000151718	1254	1469	1651	959	1139	1301
## ENSG00000177300	0	0	0	0	0	0
## ENSG00000185758	1	0	0	0	0	0
## ENSG00000168564	248	288	364	257	347	391
## ENSG00000168556	94	111	135	63	93	98
## ENSG00000182552	254	251	353	205	238	282
## ENSG00000168538	502	569	621	509	618	718
## ENSG00000173320	75	88	96	148	208	256
## ENSG00000164303	0	0	3	1	0	0
## ENSG00000168310	192	222	294	243	247	317
## ENSG00000164305	650	788	969	412	447	539
## ENSG00000164306	69	86	117	40	53	52
## ENSG00000151725	173	239	268	17	44	32
## ENSG00000151726	576	660	829	527	614	684
## ENSG00000187821	0	0	0	0	0	0
## ENSG00000151729	243	296	367	66	118	118
## ENSG00000164323	638	758	953	454	549	633
## ENSG00000109762	315	424	541	438	507	578
## ENSG00000109771	14	20	11	17	23	20
## ENSG00000186352	15	18	15	18	24	26
## ENSG00000109775	283	304	353	207	247	243
## ENSG00000205129	2	2	2	3	2	1

## ENSG00000168491	13	14	14	3	8	2
## ENSG00000154553	94	103	133	50	50	56
## ENSG00000154556	1	1	1	1	0	0
## ENSG00000164342	7	5	7	0	0	1
## ENSG00000109794	10	15	14	4	9	8
## ENSG00000145476	98	89	136	150	164	225
## ENSG00000164344	0	0	0	3	4	1
## ENSG00000088926	0	0	0	1	0	0
## ENSG00000272297	0	0	0	0	0	0
## ENSG00000168412	0	1	0	0	0	1
## ENSG00000083857	11647	13291	13990	7338	8200	8852
## ENSG00000179059	0	0	0	0	0	0
## ENSG00000179046	3	12	6	2	18	14
## ENSG00000184108	0	0	0	0	0	0
## ENSG00000109536	200	265	312	246	261	293
## ENSG00000205097	0	1	0	0	0	0
## ENSG00000260596	0	0	0	0	0	0
## ENSG00000153404	52	71	83	85	103	115
## ENSG00000185028	0	0	0	0	0	1
## ENSG00000164366	300	298	389	340	370	405
## ENSG00000073578	1254	1553	1971	2024	2226	2567
## ENSG00000249915	783	878	1085	1130	1294	1589
## ENSG00000063438	833	999	1299	1160	1371	1567
## ENSG00000180104	723	782	1011	799	887	1106
## ENSG00000066230	16	10	26	102	104	149
## ENSG00000112877	20	44	43	20	29	26
## ENSG00000171368	3	6	5	3	5	5
## ENSG00000206077	1	0	0	0	1	0
## ENSG00000188818	9	7	17	13	16	14
## ENSG00000028310	541	668	802	565	638	779
## ENSG00000071539	316	451	574	77	98	81
## ENSG00000145506	0	1	0	8	7	9
## ENSG00000113504	302	337	426	842	827	1148
## ENSG00000174358	1	0	0	0	1	0
## ENSG00000164363	0	0	0	0	0	0
## ENSG00000164362	0	0	0	0	0	0
## ENSG00000049656	1538	1710	2222	2164	2275	2807
## ENSG00000142319	1	0	0	0	1	0
## ENSG00000153395	920	1140	1401	1413	1465	1820
## ENSG00000171421	384	452	541	674	721	806
## ENSG00000145494	532	591	741	699	712	777
## ENSG00000113430	2	1	6	4	2	4
## ENSG00000170561	8	14	24	12	19	24
## ENSG00000186493	3	4	7	12	13	17
## ENSG00000170549	0	0	0	0	0	0
## ENSG00000145536	1	0	2	1	1	2
## ENSG00000164151	805	961	1230	803	926	1012
## ENSG00000133398	372	480	564	366	460	538
## ENSG00000215218	0	0	0	0	1	2
## ENSG00000037474	1106	1296	1632	607	764	838
## ENSG00000145545	589	718	863	358	402	442
## ENSG00000112941	248	268	368	163	170	198
## ENSG00000282558	0	0	0	0	0	0
## ENSG00000078295	0	0	0	0	0	0

## ENSG00000215217	1	0	0	1	0	1
## ENSG00000124275	419	507	580	436	420	524
## ENSG00000124279	78	70	109	78	84	100
## ENSG00000112902	1827	2213	2296	3607	4197	4567
## ENSG00000169777	1	1	2	0	2	0
## ENSG00000150756	123	124	184	116	129	147
## ENSG00000150753	2973	3456	4249	2370	2678	3128
## ENSG00000164237	336	350	407	584	649	702
## ENSG00000145495	1486	1784	2240	1663	2039	2213
## ENSG00000145491	1	0	4	2	5	1
## ENSG00000164236	120	116	190	134	176	165
## ENSG00000112977	4917	5657	7516	7185	8190	9481
## ENSG00000169862	0	0	0	0	0	0
## ENSG00000039139	334	378	463	759	777	918
## ENSG00000038382	6395	7699	8400	6861	7680	8577
## ENSG00000281325	0	0	0	1	0	0
## ENSG00000145569	4	11	10	135	117	155
## ENSG00000154124	306	386	399	377	403	455
## ENSG00000154122	458	543	649	1011	1037	1351
## ENSG00000183580	295	341	470	304	356	418
## ENSG00000183654	0	0	0	0	0	0
## ENSG00000173545	566	694	878	805	964	1094
## ENSG00000154153	1	0	2	0	1	0
## ENSG00000145555	5780	6674	8380	7612	8421	9892
## ENSG00000176788	2668	3214	4008	3489	3650	4340
## ENSG00000145526	2	4	8	5	9	3
## ENSG00000154162	0	1	0	0	0	3
## ENSG00000164256	0	0	0	0	0	0
## ENSG00000040731	4	5	8	12	13	11
## ENSG00000113100	0	0	1	0	0	0
## ENSG00000113361	3910	4855	5640	7596	8792	10112
## ENSG00000113360	766	903	1200	572	671	753
## ENSG00000082213	308	353	386	390	467	505
## ENSG00000133401	3	7	10	22	20	24
## ENSG00000113384	1351	1611	1966	1737	1971	2324
## ENSG00000150712	480	585	714	582	700	747
## ENSG00000056097	2089	2505	3052	1821	2179	2553
## ENSG00000113387	1455	1800	2127	441	528	498
## ENSG00000113389	281	360	441	283	348	353
## ENSG00000113407	2711	3135	3713	2016	2352	2590
## ENSG00000151388	2186	2387	2975	2872	3097	3530
## ENSG00000182631	0	0	1	4	5	2
## ENSG00000164175	1	1	0	0	0	1
## ENSG00000242110	18	33	31	23	23	32
## ENSG00000273294	0	1	0	0	0	0
## ENSG00000082196	4	1	1	2	1	1
## ENSG00000039560	8372	9763	11872	10425	12309	13636
## ENSG00000205838	3	0	3	7	7	1
## ENSG00000113456	375	427	525	400	497	511
## ENSG00000113460	291	408	475	332	385	460
## ENSG00000168724	739	827	1027	957	1078	1262
## ENSG00000113492	0	0	0	0	0	0
## ENSG00000113494	16	22	18	0	7	6
## ENSG00000152582	22	26	23	9	11	22

## ENSG00000168685	1616	1936	2421	1383	1583	1856
## ENSG00000152611	0	1	1	0	0	0
## ENSG00000145626	0	0	0	0	0	0
## ENSG00000168671	0	0	0	0	0	0
## ENSG00000164187	274	349	436	224	309	381
## ENSG00000145604	385	382	531	132	141	164
## ENSG00000152620	269	306	357	288	343	357
## ENSG00000164188	2	0	0	1	2	1
## ENSG00000079215	6	9	7	8	2	6
## ENSG00000164190	974	1055	1248	1526	1748	1996
## ENSG00000197603	340	380	420	299	364	357
## ENSG00000113569	477	569	744	383	467	528
## ENSG00000082068	249	336	399	334	382	372
## ENSG00000168621	31	41	65	573	503	691
## ENSG00000164318	9	9	6	8	8	7
## ENSG00000113594	552	643	766	455	544	641
## ENSG00000145623	2432	2737	3401	5964	6112	8106
## ENSG00000164327	459	491	657	1433	1549	2014
## ENSG00000082074	0	0	0	0	0	1
## ENSG00000113600	0	1	2	0	0	1
## ENSG00000153071	3822	4395	5545	2881	3321	3680
## ENSG00000171522	185	219	270	116	152	174
## ENSG00000113638	124	139	177	152	192	223
## ENSG00000132356	1268	1595	1975	2098	2469	2740
## ENSG00000279126	0	0	0	0	0	0
## ENSG00000145592	4690	5177	6279	5027	5517	6200
## ENSG00000132357	93	114	159	127	147	189
## ENSG00000112936	11	18	18	30	29	35
## ENSG00000171495	0	0	0	0	0	0
## ENSG00000039537	1	1	0	2	1	2
## ENSG00000182836	3	8	5	8	2	4
## ENSG00000083720	500	604	722	386	476	498
## ENSG00000205765	507	514	692	358	418	459
## ENSG00000151876	34	65	55	39	64	60
## ENSG00000112964	44	38	49	9	8	6
## ENSG00000198865	9	13	12	3	5	9
## ENSG00000250722	1	2	0	3	0	6
## ENSG00000177721	9	11	22	8	6	12
## ENSG00000172262	337	365	458	358	436	533
## ENSG00000177453	14	12	8	2	2	6
## ENSG00000112972	434	471	587	975	1022	1341
## ENSG00000151882	1	0	1	1	1	0
## ENSG00000151881	187	221	261	128	137	134
## ENSG00000172244	35	40	58	28	27	39
## ENSG00000172239	874	972	1258	1229	1359	1708
## ENSG00000112992	1128	1342	1670	1055	1312	1423
## ENSG00000070193	1	2	0	1	1	1
## ENSG00000112996	280	356	430	287	353	451
## ENSG00000164588	0	0	0	0	0	0
## ENSG00000170571	105	130	146	59	76	77
## ENSG00000151883	171	217	273	181	214	272
## ENSG00000016082	0	1	0	0	0	0
## ENSG00000213949	2352	2565	3194	3968	4806	5337
## ENSG00000152684	1030	1263	1518	1315	1508	1802

## ENSG00000164171	7996	9756	11604	19760	20114	26602
## ENSG00000164172	492	534	663	525	620	696
## ENSG00000134363	2760	3425	4504	4214	4879	5855
## ENSG00000164258	430	494	601	440	510	572
## ENSG00000185305	189	189	241	325	422	447
## ENSG00000169271	4	4	1	0	2	1
## ENSG00000178996	1795	2053	2659	1315	1693	1812
## ENSG00000164283	57	61	71	14	11	17
## ENSG00000113088	0	0	0	0	0	0
## ENSG00000145649	0	0	0	0	0	0
## ENSG00000164287	1	0	0	0	0	0
## ENSG00000164294	2874	3370	4106	2299	2706	2835
## ENSG00000234602	0	0	0	0	0	0
## ENSG00000152669	0	1	2	5	6	7
## ENSG00000067248	1129	1330	1647	1497	1729	2150
## ENSG00000039123	976	1191	1396	1202	1325	1548
## ENSG00000067113	126	146	185	105	116	135
## ENSG00000177058	185	194	241	365	406	526
## ENSG00000152670	0	0	0	0	0	0
## ENSG00000164509	41	35	44	22	25	32
## ENSG00000279768	0	0	0	0	0	0
## ENSG00000134352	13334	15304	19022	9425	11226	13096
## ENSG00000164512	7	2	7	20	9	17
## ENSG00000225940	0	0	0	0	0	0
## ENSG00000095015	173	179	246	148	176	231
## ENSG00000155542	32	31	38	32	53	66
## ENSG00000155545	260	242	325	496	538	628
## ENSG00000062194	718	740	937	896	1030	1179
## ENSG00000169067	5	15	14	24	31	34
## ENSG00000145632	1300	1530	1946	4579	5072	6008
## ENSG00000175857	0	0	0	0	0	0
## ENSG00000152932	0	0	0	0	0	0
## ENSG00000113448	77	79	90	63	84	106
## ENSG00000280447	0	0	0	1	0	0
## ENSG00000035499	75	76	106	12	20	26
## ENSG00000164181	0	2	1	1	1	1
## ENSG00000049167	118	132	160	64	94	111
## ENSG00000164182	274	357	419	233	272	312
## ENSG00000188725	674	844	1045	1097	1205	1470
## ENSG00000130449	382	442	585	598	630	795
## ENSG00000068796	563	706	904	491	581	711
## ENSG00000086189	384	524	659	410	461	558
## ENSG00000086200	347	364	496	127	144	141
## ENSG00000186105	0	0	0	0	0	0
## ENSG00000178394	0	0	0	0	0	0
## ENSG00000164197	0	2	1	1	3	1
## ENSG00000186479	0	0	0	0	0	0
## ENSG00000145642	1	1	0	0	1	1
## ENSG00000153006	315	360	441	518	619	746
## ENSG00000153015	376	384	516	413	471	581
## ENSG00000049192	260	373	402	153	196	165
## ENSG00000123219	122	156	164	56	61	67
## ENSG00000113593	215	209	267	254	254	280
## ENSG00000113595	301	304	392	504	527	573

## ENSG00000113597	150	236	270	202	240	282
## ENSG00000253251	13	19	24	23	23	25
## ENSG00000197860	561	721	822	461	541	588
## ENSG00000123213	686	864	1119	432	516	635
## ENSG00000112851	1453	1848	2209	1842	2250	2645
## ENSG00000153914	816	811	1121	816	955	1090
## ENSG00000069020	431	466	584	331	339	388
## ENSG00000134061	1	0	0	0	0	0
## ENSG00000145675	355	435	453	252	316	347
## ENSG00000145740	792	880	1098	1111	1220	1470
## ENSG00000134057	1055	1196	1634	195	234	254
## ENSG00000153044	72	108	149	19	20	25
## ENSG00000134056	168	188	228	248	276	332
## ENSG00000134058	593	685	794	663	823	958
## ENSG00000183323	37	35	49	37	42	50
## ENSG00000085231	176	234	257	186	187	252
## ENSG00000273841	660	801	1013	647	753	836
## ENSG00000152942	250	315	375	234	312	370
## ENSG00000152939	11	18	27	6	9	7
## ENSG00000197822	5	4	4	2	3	2
## ENSG00000183474	74	93	119	94	105	129
## ENSG00000205572	1	0	0	4	6	6
## ENSG00000205571	33	56	55	42	53	59
## ENSG00000172058	1	0	1	5	3	4
## ENSG00000172062	104	125	141	150	177	197
## ENSG00000249437	0	1	4	0	4	3
## ENSG00000145736	97	111	146	133	149	180
## ENSG00000145734	804	870	1051	1009	1183	1269
## ENSG00000131844	307	390	513	426	488	583
## ENSG00000164326	0	0	0	0	0	0
## ENSG00000131711	8917	10861	12179	9182	10630	11971
## ENSG00000113048	650	738	977	307	385	424
## ENSG00000049883	115	161	177	115	130	126
## ENSG00000178175	0	0	0	0	0	0
## ENSG00000083312	4048	4696	6025	4455	5074	6014
## ENSG00000157107	351	411	498	722	846	1014
## ENSG00000157111	86	94	117	73	85	85
## ENSG00000164325	0	0	0	0	0	0
## ENSG00000251493	769	947	1316	1084	1122	1334
## ENSG00000145741	3931	4506	5316	4358	4991	5495
## ENSG00000164331	150	191	218	437	483	623
## ENSG00000164338	198	236	293	264	251	325
## ENSG00000214944	472	580	671	1112	1159	1583
## ENSG00000171617	1232	1309	1679	4602	4741	6391
## ENSG00000049860	1895	2072	2612	3631	3810	4524
## ENSG00000164347	493	568	708	497	556	633
## ENSG00000164346	641	722	905	728	810	954
## ENSG00000198780	3	1	2	7	3	7
## ENSG00000176928	37	48	54	39	49	44
## ENSG00000145700	2	0	0	0	0	1
## ENSG00000113161	922	995	1195	1596	1599	2134
## ENSG00000113163	418	458	611	674	750	884
## ENSG00000122008	320	376	452	326	433	498
## ENSG00000189045	1	2	0	2	4	3

## ENSG00000152359	62	78	84	63	67	72
## ENSG00000122012	0	0	0	0	0	1
## ENSG00000254893	13	24	22	8	18	29
## ENSG00000145703	18	17	16	102	100	138
## ENSG00000164220	822	934	1125	2095	2598	3029
## ENSG00000181104	5633	6620	8233	21411	22494	29403
## ENSG00000164251	342	391	472	4096	4147	5560
## ENSG00000171643	0	0	0	0	0	0
## ENSG00000145708	5	3	6	5	4	13
## ENSG00000164252	409	455	562	477	539	650
## ENSG00000132846	53	62	63	25	30	30
## ENSG00000113231	19	27	23	17	22	31
## ENSG00000164253	712	811	992	762	869	1003
## ENSG00000171540	0	0	0	0	0	0
## ENSG00000171530	906	1012	1114	1264	1381	1646
## ENSG00000132842	1409	1560	1992	1888	2171	2403
## ENSG00000085365	794	916	1183	767	910	1087
## ENSG00000145685	507	646	728	1029	1224	1313
## ENSG00000113273	1008	1186	1566	1204	1394	1610
## ENSG00000132837	3	6	4	0	3	2
## ENSG00000132840	5	7	10	3	5	3
## ENSG00000145692	1	0	0	0	0	0
## ENSG00000152409	268	290	322	530	597	710
## ENSG00000152413	160	231	256	270	331	368
## ENSG00000164329	487	539	674	726	806	866
## ENSG00000164309	11	7	9	8	5	3
## ENSG00000177034	321	410	397	239	270	312
## ENSG00000113296	9	4	6	4	4	4
## ENSG00000164300	362	402	422	985	1042	1222
## ENSG00000164299	0	0	0	0	0	0
## ENSG00000039319	506	600	693	915	999	1192
## ENSG00000152380	22	31	38	29	50	45
## ENSG00000189127	0	0	0	0	0	0
## ENSG00000228716	325	378	457	138	145	178
## ENSG00000113318	271	370	447	202	234	313
## ENSG00000113319	499	593	747	1967	2129	2722
## ENSG00000131730	3	4	10	9	11	7
## ENSG00000131732	282	303	377	335	326	379
## ENSG00000172497	1	0	3	1	1	2
## ENSG00000145687	237	285	310	205	255	258
## ENSG00000152348	83	77	101	64	65	80
## ENSG00000186468	2393	2653	3294	2557	3028	3395
## ENSG00000205464	19	17	30	14	22	18
## ENSG00000174695	1757	2018	2459	2374	2872	2997
## ENSG00000152422	138	158	195	182	222	180
## ENSG00000038427	6888	7159	8752	18487	20299	23977
## ENSG00000145681	0	0	4	5	7	10
## ENSG00000164176	2497	2927	3774	4513	5196	6804
## ENSG00000127184	1207	1333	1671	1311	1424	1609
## ENSG00000145715	1478	1736	2286	2214	2402	2918
## ENSG00000134480	323	336	487	372	440	538
## ENSG00000164180	115	139	181	189	214	224
## ENSG00000081189	85	106	90	49	82	67
## ENSG00000153140	100	109	126	78	88	102

## ENSG00000176055	96	119	128	76	75	91
## ENSG00000113356	86	103	135	58	69	83
## ENSG00000176018	555	597	830	861	867	964
## ENSG00000164199	3	2	2	8	7	7
## ENSG00000113369	389	544	671	1143	1472	1704
## ENSG00000175745	1353	1567	2031	1962	2115	2647
## ENSG00000113391	402	463	519	466	601	656
## ENSG00000248483	0	0	0	0	0	0
## ENSG00000185261	25	37	29	38	36	36
## ENSG00000133302	88	96	121	77	71	87
## ENSG00000175471	11	11	9	163	131	243
## ENSG00000153347	0	0	0	0	0	0
## ENSG00000198677	2536	2757	3512	2671	3270	3595
## ENSG00000164291	420	513	620	362	439	482
## ENSG00000178015	2	3	4	12	4	5
## ENSG00000175449	11	2	1	4	5	4
## ENSG00000145757	7	8	10	4	2	10
## ENSG00000164292	2461	3008	3559	3073	3662	4241
## ENSG00000173221	1031	1198	1364	953	1157	1277
## ENSG00000118985	2769	3253	4117	1882	2219	2260
## ENSG00000175426	1	0	1	0	2	0
## ENSG00000153113	2698	3213	3903	2107	2564	2804
## ENSG00000164307	509	576	698	641	728	821
## ENSG00000164308	353	351	461	439	444	483
## ENSG00000113441	460	534	647	735	808	870
## ENSG00000145721	0	0	0	0	1	0
## ENSG00000058729	412	470	615	326	404	439
## ENSG00000174136	2092	2773	3476	1199	1581	1565
## ENSG00000279232	2	5	4	4	4	5
## ENSG00000153922	568	617	813	560	671	706
## ENSG00000174132	149	192	209	288	309	421
## ENSG00000113532	3	1	9	5	5	9
## ENSG00000173930	0	0	0	0	0	0
## ENSG00000205359	0	0	0	0	0	0
## ENSG00000145730	2754	2894	3830	2621	3067	3400
## ENSG00000145723	54	63	81	57	64	61
## ENSG00000145725	983	1143	1329	1074	1259	1409
## ENSG00000181751	222	276	351	111	131	176
## ENSG00000112874	104	109	138	73	105	109
## ENSG00000184349	57	94	105	132	154	173
## ENSG00000145743	263	347	446	465	547	688
## ENSG00000151422	533	706	790	585	709	813
## ENSG00000198961	2242	2620	3320	1709	2109	2222
## ENSG00000112893	2474	2806	3499	6285	6996	8945
## ENSG00000186952	1	3	3	4	5	6
## ENSG00000164209	822	1003	1228	1316	1570	1834
## ENSG00000145777	100	106	112	173	261	280
## ENSG00000134987	1008	1144	1356	1778	2099	2343
## ENSG00000152495	151	159	196	209	218	281
## ENSG00000164211	497	641	753	665	829	937
## ENSG00000134986	2271	2520	3155	2806	3836	3683
## ENSG00000129595	0	3	0	2	3	4
## ENSG00000134982	1200	1256	1690	734	802	944
## ENSG00000258864	0	0	0	0	0	0



## ENSG00000272869	1	0	1	0	1	0
## ENSG00000153037	128	174	210	161	209	244
## ENSG00000129625	1724	2033	2592	2584	2888	3288
## ENSG00000212643	0	0	0	0	2	0
## ENSG00000172795	269	280	357	1314	1426	1732
## ENSG00000171444	474	481	637	1912	2107	2464
## ENSG00000212122	0	0	0	0	0	0
## ENSG00000047188	462	477	607	487	617	616
## ENSG00000080709	209	205	276	241	321	287
## ENSG00000152503	8	3	3	13	3	11
## ENSG00000164219	252	313	400	186	248	257
## ENSG00000164221	134	131	194	138	174	176
## ENSG00000145780	498	518	698	440	535	621
## ENSG00000251201	0	1	4	2	3	3
## ENSG00000243414	4	6	4	3	3	2
## ENSG00000134970	2085	2518	3036	1732	2175	2329
## ENSG00000129596	62	57	94	81	84	98
## ENSG00000145782	810	1002	1203	1298	1439	1666
## ENSG00000177879	1055	1394	1652	1194	1345	1501
## ENSG00000280329	0	0	0	0	0	0
## ENSG00000172901	3	4	2	5	5	3
## ENSG00000268714	0	0	0	0	0	0
## ENSG00000268223	0	0	0	0	0	0
## ENSG00000145781	218	260	344	178	211	222
## ENSG00000092421	55	60	87	89	116	133
## ENSG00000169570	37	75	75	43	48	62
## ENSG00000172869	611	702	825	655	751	809
## ENSG00000145779	214	218	273	179	185	242
## ENSG00000133835	977	1110	1379	1010	1120	1252
## ENSG00000164334	0	0	0	0	0	0
## ENSG00000184838	272	347	410	1605	1679	2349
## ENSG00000181867	0	0	0	0	0	0
## ENSG00000151304	177	189	220	207	216	253
## ENSG00000113083	18671	21418	27101	9632	12832	12022
## ENSG00000164185	4	6	10	2	4	0
## ENSG00000064692	117	147	209	168	177	205
## ENSG00000205302	582	658	813	483	589	600
## ENSG00000064652	214	249	305	130	144	143
## ENSG00000168938	408	520	567	492	611	686
## ENSG00000061455	54	38	45	16	28	16
## ENSG00000168944	336	408	457	515	603	647
## ENSG00000151292	627	735	853	840	1027	1136
## ENSG00000168916	331	378	453	746	809	975
## ENSG00000155324	247	281	338	123	146	163
## ENSG00000164904	610	714	851	486	568	616
## ENSG00000164902	894	959	1241	818	1004	1154
## ENSG00000196900	0	0	0	0	1	1
## ENSG00000113368	581	707	921	142	182	154
## ENSG00000173926	92	111	166	61	64	77
## ENSG00000164241	10	11	10	3	5	8
## ENSG00000145794	0	0	0	0	1	0
## ENSG00000164244	1897	2205	2737	2685	3222	3483
## ENSG00000205279	0	0	0	0	0	0
## ENSG00000064651	459	525	708	601	764	911

## ENSG00000138829	3489	4056	4341	3521	4141	4294
## ENSG00000113396	0	0	3	11	10	13
## ENSG00000066583	142	152	183	138	142	187
## ENSG00000145808	37	56	50	160	249	220
## ENSG00000186367	0	0	0	0	1	0
## ENSG00000198108	56	71	98	46	59	73
## ENSG00000169567	1634	1736	2180	2087	2361	2637
## ENSG00000186687	335	337	417	189	222	284
## ENSG00000158985	444	583	658	666	773	934
## ENSG00000158987	87	102	125	101	106	136
## ENSG00000273217	0	0	0	0	0	0
## ENSG00000217128	510	565	686	1081	1171	1421
## ENSG00000239642	0	0	1	0	0	0
## ENSG00000281938	0	0	0	0	0	0
## ENSG00000164398	0	0	0	0	0	2
## ENSG00000164399	0	0	0	0	0	0
## ENSG00000164400	1	2	4	2	1	3
## ENSG00000072682	2444	2705	3595	2833	3056	3241
## ENSG00000131435	1068	1307	1674	966	1042	1224
## ENSG00000197208	91	118	125	291	287	391
## ENSG00000197375	72	83	78	44	67	50
## ENSG00000197536	27	23	18	61	79	90
## ENSG00000125347	249	318	462	993	920	1279
## ENSG00000113525	0	0	0	0	0	0
## ENSG00000113522	632	689	844	918	986	1160
## ENSG00000169194	0	0	0	0	0	0
## ENSG00000113520	0	1	0	0	0	0
## ENSG00000131437	236	288	390	415	492	662
## ENSG00000205089	0	0	1	0	0	0
## ENSG00000164402	1334	1515	1940	1297	1433	1613
## ENSG00000198944	1	0	0	0	0	0
## ENSG00000164403	137	137	195	150	180	188
## ENSG00000164404	3	1	3	1	1	2
## ENSG00000164405	670	699	904	765	863	1025
## ENSG00000164406	6	6	6	9	5	4
## ENSG00000072364	3146	3739	4053	3359	4122	4543
## ENSG00000155329	135	128	180	197	207	269
## ENSG00000170606	3437	4082	5077	2919	3340	3775
## ENSG00000053108	3	1	1	1	0	1
## ENSG00000113583	1160	1345	1698	2109	2456	2844
## ENSG00000213585	4025	4515	5637	3639	4017	4591
## ENSG00000081059	101	111	141	172	157	201
## ENSG00000113558	2172	2462	3200	3130	3613	4178
## ENSG00000272772	0	0	0	0	0	0
## ENSG00000113575	1534	1852	2259	1175	1499	1527
## ENSG00000006837	6	9	7	20	4	9
## ENSG00000119048	636	727	836	1209	1381	1591
## ENSG00000237190	220	251	282	175	176	218
## ENSG00000043143	584	656	881	710	673	842
## ENSG00000152700	746	848	1077	844	957	1093
## ENSG00000113615	1289	1463	1879	1385	1643	1992
## ENSG00000164615	419	492	533	624	684	813
## ENSG00000145833	1060	1317	1593	879	1043	1161
## ENSG00000181904	1331	1539	1904	1940	2352	2742

## ENSG00000113621	942	1081	1286	1216	1333	1566
## ENSG00000132570	49	73	87	52	78	71
## ENSG00000152705	2	2	0	2	4	3
## ENSG00000069011	1096	1182	1561	2452	2583	3088
## ENSG00000113648	1298	1508	1916	2333	2550	3071
## ENSG00000251380	0	0	0	0	0	0
## ENSG00000255833	0	0	0	0	0	0
## ENSG00000181965	0	0	0	0	0	0
## ENSG00000145824	0	3	0	3	0	1
## ENSG00000145832	0	0	0	0	0	0
## ENSG00000145839	0	0	0	0	0	0
## ENSG00000145826	1	0	0	0	0	0
## ENSG00000120708	41444	46511	59404	78265	88572	105066
## ENSG00000113658	1152	1203	1616	1382	1465	1686
## ENSG00000069018	0	0	0	0	0	0
## ENSG00000152377	903	992	1274	1431	1589	1858
## ENSG00000146021	34	48	41	29	29	30
## ENSG00000177733	1837	2097	2655	2354	2710	3189
## ENSG00000120729	1	1	1	0	1	3
## ENSG00000078795	0	0	0	1	1	0
## ENSG00000031003	620	765	956	877	991	1156
## ENSG00000061492	0	0	0	0	0	1
## ENSG00000112981	7	3	6	3	8	7
## ENSG00000112983	577	654	852	616	681	804
## ENSG00000112984	787	998	1309	106	124	104
## ENSG00000094880	485	581	678	346	390	386
## ENSG00000146013	0	1	0	0	0	1
## ENSG00000158402	60	101	113	16	13	12
## ENSG00000120709	779	832	1167	777	818	962
## ENSG00000120733	996	1056	1289	1057	1086	1284
## ENSG00000132563	413	446	562	260	297	315
## ENSG00000120738	1699	2200	2963	2456	3790	3955
## ENSG00000120705	2562	3054	3789	2280	2900	3252
## ENSG00000113013	3917	4412	5612	2799	3344	3744
## ENSG00000044115	6414	7427	9671	8211	9402	10718
## ENSG00000146006	23	20	22	17	17	27
## ENSG00000120725	540	663	863	641	752	815
## ENSG00000280987	24	24	29	16	27	24
## ENSG00000015479	17	7	23	27	35	30
## ENSG00000120727	450	542	729	593	598	807
## ENSG00000170482	2	4	5	5	9	5
## ENSG00000170476	0	0	0	0	0	0
## ENSG00000228672	32	26	42	47	36	56
## ENSG00000170469	21	29	28	23	21	27
## ENSG00000170464	303	329	384	383	445	543
## ENSG00000279686	0	0	0	0	0	0
## ENSG00000249751	2	0	1	0	1	1
## ENSG00000184584	490	619	778	383	461	494
## ENSG00000131508	1032	1306	1519	1251	1397	1619
## ENSG00000171604	604	712	918	491	637	673
## ENSG00000146005	4	2	0	1	0	0
## ENSG00000158458	2	0	3	3	3	1
## ENSG00000185129	469	632	614	414	421	504
## ENSG00000182700	98	86	91	61	57	68

## ENSG00000120306	143	185	248	328	279	432
## ENSG00000113068	972	1095	1361	854	993	1133
## ENSG00000281227	0	0	0	0	0	1
## ENSG00000113070	529	604	764	185	256	208
## ENSG00000113073	0	0	0	0	0	0
## ENSG00000131503	7	12	13	16	14	16
## ENSG00000254996	13	9	22	9	11	23
## ENSG00000213523	593	780	880	705	811	907
## ENSG00000243056	1	1	1	2	0	1
## ENSG00000113108	49	48	67	79	73	92
## ENSG00000176087	867	1023	1328	526	628	721
## ENSG00000170458	3	7	5	6	7	4
## ENSG00000131495	220	271	320	312	354	363
## ENSG00000113119	34	39	51	21	23	34
## ENSG00000113141	1056	1262	1533	1151	1211	1465
## ENSG00000120314	396	441	562	464	507	601
## ENSG00000256453	0	0	0	0	0	0
## ENSG00000170445	1331	1600	1961	1260	1410	1543
## ENSG00000112855	293	342	453	379	442	503
## ENSG00000146007	747	816	1018	699	743	847
## ENSG00000204970	2	3	1	1	2	4
## ENSG00000204969	0	1	1	0	1	5
## ENSG00000255408	2	3	3	10	6	5
## ENSG00000204967	1	0	1	9	8	5
## ENSG00000204965	0	0	0	0	0	1
## ENSG00000081842	0	1	1	4	2	6
## ENSG00000204963	2	8	4	17	16	24
## ENSG00000204962	0	2	1	0	0	1
## ENSG00000204961	1	0	0	1	0	0
## ENSG00000250120	3	4	5	12	9	8
## ENSG00000249158	0	0	0	0	0	0
## ENSG00000251664	0	0	0	0	0	1
## ENSG00000239389	0	0	0	0	0	0
## ENSG00000248383	0	0	0	0	1	2
## ENSG00000243232	0	0	0	0	0	0
## ENSG00000171815	0	0	0	0	0	0
## ENSG00000112852	11	17	17	94	76	106
## ENSG00000113205	2	2	5	15	20	18
## ENSG00000081818	2	1	1	4	3	6
## ENSG00000113209	8	19	12	41	36	45
## ENSG00000113211	8	8	19	25	22	26
## ENSG00000113212	17	15	23	77	77	80
## ENSG00000120322	2	8	7	22	23	13
## ENSG00000272674	16	20	39	87	88	97
## ENSG00000279068	0	0	0	0	1	1
## ENSG00000177839	6	6	12	31	46	39
## ENSG00000120324	19	12	24	56	57	92
## ENSG00000197479	1	1	5	19	24	28
## ENSG00000120328	4	9	5	13	14	33
## ENSG00000187372	34	40	52	74	103	106
## ENSG00000120327	29	37	41	82	99	126
## ENSG00000279983	0	0	0	0	0	0
## ENSG00000113248	16	23	22	62	86	92
## ENSG00000178913	1468	1773	2169	2105	2355	2729

## ENSG00000120329	1	0	0	0	0	0
## ENSG00000204956	35	49	45	74	76	123
## ENSG00000081853	145	156	182	234	256	280
## ENSG00000254245	48	61	87	123	112	131
## ENSG00000254221	48	49	54	137	139	177
## ENSG00000262576	162	206	236	324	332	412
## ENSG00000253910	61	74	111	202	170	229
## ENSG00000253485	47	61	86	114	115	153
## ENSG00000262209	75	84	95	138	121	182
## ENSG00000253731	130	151	195	224	231	250
## ENSG00000253537	124	132	183	213	219	263
## ENSG00000253953	181	184	219	270	297	391
## ENSG00000253767	11	23	14	16	21	32
## ENSG00000276547	607	707	916	1130	1229	1519
## ENSG00000261934	46	44	62	67	61	90
## ENSG00000253305	24	36	59	75	68	99
## ENSG00000253846	123	129	181	196	244	295
## ENSG00000254122	149	177	239	332	306	426
## ENSG00000253873	158	227	268	258	238	318
## ENSG00000253159	177	231	267	246	288	348
## ENSG00000240184	887	1028	1424	941	1015	1139
## ENSG00000242419	7	7	6	6	7	8
## ENSG00000240764	74	94	97	54	58	63
## ENSG00000131504	1736	2171	2651	1523	1702	1938
## ENSG00000171720	560	661	822	599	751	859
## ENSG00000164620	23	36	58	49	43	44
## ENSG00000197948	381	425	593	292	306	380
## ENSG00000120318	275	301	417	260	319	399
## ENSG00000156453	21	33	44	45	45	64
## ENSG00000081791	426	554	695	576	582	719
## ENSG00000113555	2	3	7	8	5	12
## ENSG00000013561	900	1027	1228	646	734	895
## ENSG00000113552	496	517	625	651	656	849
## ENSG00000131507	1071	1323	1617	1596	1736	2081
## ENSG00000187678	912	989	1240	3481	3723	4472
## ENSG00000113578	272	320	389	75	108	108
## ENSG00000145819	44	33	39	64	53	70
## ENSG00000113580	1289	1538	1954	2110	2208	2760
## ENSG00000158497	0	0	0	0	0	0
## ENSG00000145817	1768	1885	2437	1958	2369	2642
## ENSG00000183775	26	36	38	8	22	13
## ENSG00000186314	34	51	53	12	13	16
## ENSG00000204928	0	0	0	0	0	0
## ENSG00000156463	38	46	70	5	8	5
## ENSG00000173261	3	0	3	2	4	4
## ENSG00000133706	1759	1867	2434	1297	1575	1684
## ENSG00000275740	0	0	0	0	1	0
## ENSG00000091009	243	330	357	191	228	262
## ENSG00000091010	1	0	0	0	0	0
## ENSG00000113649	747	877	1104	698	842	1026
## ENSG00000173250	1	0	0	0	1	0
## ENSG00000156475	0	0	3	1	1	0
## ENSG00000169302	3	3	2	0	2	0
## ENSG00000113657	2614	3024	3819	1591	1795	2093

## ENSG00000176049	1	1	0	1	2	0
## ENSG00000164266	0	0	0	0	0	0
## ENSG00000164265	0	0	0	0	0	0
## ENSG00000178776	2	4	4	0	1	4
## ENSG00000133710	0	0	0	0	0	0
## ENSG00000196800	0	0	0	0	0	0
## ENSG00000178172	0	0	0	0	0	0
## ENSG00000214510	0	0	0	0	0	0
## ENSG00000145879	0	0	0	0	0	0
## ENSG00000204909	0	0	1	0	0	1
## ENSG00000145868	436	477	606	684	798	920
## ENSG00000164270	0	0	0	0	0	0
## ENSG00000169252	39	41	47	16	17	33
## ENSG00000169247	79	95	115	19	20	17
## ENSG00000173210	2334	2658	3259	3626	3929	4570
## ENSG00000157510	131	150	218	100	132	172
## ENSG00000164284	268	246	326	140	157	179
## ENSG00000145882	229	266	328	86	91	102
## ENSG00000127743	0	2	5	5	7	7
## ENSG00000113712	2180	2562	3406	1935	2377	2547
## ENSG00000183111	23	25	29	22	22	34
## ENSG00000155846	18	19	19	36	41	51
## ENSG00000132915	0	0	0	0	0	1
## ENSG00000155850	555	723	827	1057	1060	1333
## ENSG00000164296	89	96	116	88	101	93
## ENSG00000113716	983	1178	1372	1537	1629	1932
## ENSG00000182578	7	11	13	9	7	6
## ENSG00000113721	5063	5308	7309	15466	16949	19442
## ENSG00000113722	0	1	2	4	1	0
## ENSG00000011083	0	0	0	0	0	0
## ENSG00000070808	6	7	6	7	7	8
## ENSG00000183876	223	202	283	128	134	155
## ENSG00000070814	1003	1124	1500	745	793	960
## ENSG00000019582	3	5	4	0	9	5
## ENSG00000164587	5347	5688	7315	5325	6138	6784
## ENSG00000070614	5198	6122	7813	4446	5176	5592
## ENSG00000171992	1504	1613	2129	456	622	517
## ENSG00000164591	1	4	2	2	0	3
## ENSG00000086589	342	418	486	419	522	598
## ENSG00000132912	1215	1390	1732	2025	2181	2586
## ENSG00000256235	649	825	1052	1406	1645	1831
## ENSG00000237693	0	0	2	1	0	0
## ENSG00000145908	75	97	102	86	135	137
## ENSG00000279109	1	0	0	0	0	0
## ENSG00000211445	49	52	64	92	93	114
## ENSG00000145901	1555	1916	2269	1631	1825	2063
## ENSG00000197043	8999	10040	12825	6767	7953	8714
## ENSG00000198624	30	42	43	63	67	81
## ENSG00000196743	470	583	688	520	619	637
## ENSG00000186334	0	0	0	0	0	0
## ENSG00000186335	0	0	0	0	0	1
## ENSG00000123643	540	586	725	1187	1208	1522
## ENSG00000086570	0	3	3	6	5	8
## ENSG00000113140	63401	69538	88459	72065	83795	87324

## ENSG00000177556	471	506	697	406	487	511
## ENSG00000275765	11	11	20	13	11	18
## ENSG00000145907	2521	3096	3733	3377	3763	4423
## ENSG00000145888	0	0	0	1	0	0
## ENSG00000132911	0	0	0	0	0	0
## ENSG00000155511	10	8	19	6	3	5
## ENSG00000055147	338	357	464	329	349	371
## ENSG00000037749	347	414	486	496	610	682
## ENSG00000164574	3648	4209	5200	4363	5233	5445
## ENSG00000164576	368	407	533	763	779	941
## ENSG00000113196	0	0	0	1	0	2
## ENSG00000155506	3994	4579	5759	4791	5302	5996
## ENSG00000170271	101	87	116	225	244	272
## ENSG00000155508	495	583	677	1204	1247	1581
## ENSG00000082516	486	546	697	325	371	418
## ENSG00000082515	194	234	300	225	272	267
## ENSG00000226650	3	1	1	0	0	1
## ENSG00000170624	630	749	978	407	652	538
## ENSG00000279646	0	0	0	0	0	0
## ENSG00000145850	0	0	0	0	0	0
## ENSG00000113249	0	0	0	0	0	0
## ENSG00000135077	0	3	2	2	3	2
## ENSG00000155868	114	139	189	153	142	188
## ENSG00000113263	0	0	0	0	0	0
## ENSG00000170613	0	0	0	0	0	0
## ENSG00000055163	218	212	324	376	419	461
## ENSG00000172568	0	1	0	0	1	0
## ENSG00000135074	6555	7834	9516	17469	19347	22411
## ENSG00000172548	9	9	16	1	3	2
## ENSG00000039600	1	3	1	0	0	3
## ENSG00000187658	0	0	0	0	0	0
## ENSG00000113272	130	166	171	128	145	160
## ENSG00000155858	127	155	166	186	219	252
## ENSG00000113282	1871	2191	2596	977	1260	1341
## ENSG00000164330	38	29	35	222	242	311
## ENSG00000145860	1495	1746	2150	2655	2924	3487
## ENSG00000164332	485	588	685	822	984	1062
## ENSG00000113302	0	0	1	0	0	0
## ENSG00000170214	32	20	28	3	11	3
## ENSG00000113312	597	699	821	580	714	811
## ENSG00000170234	268	307	336	400	369	521
## ENSG00000170231	0	0	0	0	0	0
## ENSG00000135083	122	133	179	205	221	298
## ENSG00000145861	28	32	39	2	5	4
## ENSG00000221886	71	64	80	44	47	44
## ENSG00000164609	472	538	655	733	812	969
## ENSG00000164611	371	444	595	61	82	89
## ENSG00000118322	0	0	0	0	0	0
## ENSG00000145864	0	0	0	0	0	0
## ENSG00000145863	0	0	0	0	0	0
## ENSG00000022355	0	0	0	0	0	0
## ENSG00000113327	0	0	0	0	0	0
## ENSG00000113328	2487	2858	3531	3422	4247	4751
## ENSG00000170584	180	234	282	215	253	283

## ENSG00000072571	278	360	437	28	50	48
## ENSG00000038274	825	918	1100	1275	1528	1685
## ENSG00000145934	2	4	5	3	6	2
## ENSG00000113645	159	183	265	67	73	71
## ENSG00000113643	1831	2135	2514	1737	1973	2151
## ENSG00000188573	2	0	3	2	2	3
## ENSG00000120137	1038	1147	1425	2463	2724	3474
## ENSG00000184347	11	15	20	43	32	40
## ENSG00000040275	463	584	747	671	764	988
## ENSG00000134516	15	20	24	18	21	23
## ENSG00000204767	113	117	167	203	201	310
## ENSG00000168269	0	0	0	0	0	0
## ENSG00000043462	0	0	0	0	0	0
## ENSG00000182132	0	0	0	1	0	0
## ENSG00000145936	0	0	0	0	0	0
## ENSG00000094755	0	0	0	0	0	0
## ENSG00000204764	131	139	182	138	185	233
## ENSG00000275038	0	0	0	0	0	0
## ENSG00000164438	0	0	0	0	0	0
## ENSG00000181163	9846	11844	14099	10670	12037	13659
## ENSG00000156427	2	5	4	3	5	5
## ENSG00000185662	0	0	0	0	0	0
## ENSG00000072803	1025	1222	1505	1708	2067	2423
## ENSG00000072786	975	1081	1411	814	931	1065
## ENSG00000214360	0	1	2	0	0	0
## ENSG00000168246	469	529	639	471	546	666
## ENSG00000174705	1326	1536	1869	1477	1724	1931
## ENSG00000214357	125	142	198	33	35	35
## ENSG00000120129	1069	1232	1742	2526	3097	3855
## ENSG00000113719	4484	5015	6533	4475	4821	5553
## ENSG00000037241	301	343	391	301	357	422
## ENSG00000113732	1762	1972	2384	3209	3605	4066
## ENSG00000164463	170	167	265	573	556	700
## ENSG00000113734	130	173	232	123	152	160
## ENSG00000183072	0	0	0	0	0	0
## ENSG00000113739	6307	6328	8153	6938	8018	9443
## ENSG00000145919	682	737	986	1172	1246	1483
## ENSG00000113742	376	440	536	1195	1335	1666
## ENSG00000185056	0	0	0	0	0	0
## ENSG00000170091	0	0	0	1	1	0
## ENSG00000120149	66	69	82	146	160	194
## ENSG00000184845	12	25	25	31	39	56
## ENSG00000164466	1466	1827	2192	1123	1441	1528
## ENSG00000113749	0	0	0	0	0	1
## ENSG00000145920	0	0	0	0	0	0
## ENSG00000051596	140	165	197	65	89	92
## ENSG00000182230	0	0	0	0	0	0
## ENSG00000170085	130	163	224	117	113	154
## ENSG00000122203	1859	2105	2752	2580	2879	3500
## ENSG00000175414	449	540	621	599	677	792
## ENSG00000048162	174	232	289	238	211	315
## ENSG00000146066	219	285	359	403	437	554
## ENSG00000175416	1295	1434	1798	1172	1284	1459
## ENSG00000113194	1413	1524	1925	804	950	1018



## ENSG00000146083	260	248	348	385	408	483
## ENSG00000074276	11	28	15	21	21	21
## ENSG00000169258	256	302	398	294	302	354
## ENSG00000074317	9	9	11	35	33	49
## ENSG00000175766	0	0	0	0	0	0
## ENSG00000048140	1015	1236	1530	1252	1407	1695
## ENSG00000113763	0	1	1	0	0	3
## ENSG00000160883	0	0	1	0	1	0
## ENSG00000087206	299	350	434	492	548	671
## ENSG00000113761	216	246	302	152	194	234
## ENSG00000160867	16	14	20	22	21	31
## ENSG00000165671	1142	1377	1544	1017	1080	1164
## ENSG00000169228	55	69	94	106	111	144
## ENSG00000213347	57	54	78	18	20	26
## ENSG00000169230	862	915	1267	672	766	889
## ENSG00000169223	1735	1875	2452	2454	2653	3133
## ENSG00000169220	8	12	10	11	16	17
## ENSG00000131183	0	0	0	0	0	0
## ENSG00000196570	0	0	0	0	0	0
## ENSG00000131187	13	8	13	12	11	13
## ENSG00000198055	555	653	837	598	623	814
## ENSG00000131188	83	87	129	119	135	169
## ENSG00000113758	5647	6408	8309	6747	7678	9011
## ENSG00000196923	3037	3555	4595	2128	2525	2731
## ENSG00000146094	33	28	61	42	38	58
## ENSG00000183258	699	806	1036	869	889	1125
## ENSG00000146067	255	295	393	313	321	375
## ENSG00000184840	3356	3665	4803	3860	4366	4807
## ENSG00000027847	534	592	713	403	412	509
## ENSG00000170074	0	0	0	0	1	0
## ENSG00000175325	0	0	0	0	0	0
## ENSG00000204677	0	0	0	0	1	0
## ENSG00000145911	5	4	5	2	7	9
## ENSG00000145916	220	253	321	179	237	242
## ENSG00000145912	422	483	555	433	478	551
## ENSG00000197451	2048	2411	2992	1287	1482	1704
## ENSG00000175309	113	136	159	169	170	200
## ENSG00000050767	0	0	0	0	0	0
## ENSG00000113240	98	91	111	190	186	217
## ENSG00000169131	92	110	137	144	173	209
## ENSG00000178338	53	54	81	78	103	113
## ENSG00000198939	3	1	3	2	2	6
## ENSG00000178187	3	3	5	10	10	21
## ENSG00000113262	0	0	1	3	2	0
## ENSG00000234284	21	29	26	25	21	37
## ENSG00000177932	158	144	182	203	218	274
## ENSG00000087116	2116	2459	3347	3936	4462	5063
## ENSG00000176783	500	534	742	396	440	469
## ENSG00000169045	3161	3579	4600	2109	2568	2890
## ENSG00000204659	1	0	0	1	0	0
## ENSG00000127022	13401	14884	18830	18376	20259	23885
## ENSG00000161021	559	681	804	876	879	1063
## ENSG00000213316	0	0	0	0	0	0
## ENSG00000161013	2879	3116	4057	5804	6043	7425

## ENSG00000161011	3672	4174	5033	7590	7965	10241
## ENSG00000161010	103	98	145	182	188	211
## ENSG00000197226	2070	2335	3075	2073	2437	2826
## ENSG00000113269	341	400	494	373	419	486
## ENSG00000146090	0	0	0	3	0	1
## ENSG00000050748	561	680	844	696	847	979
## ENSG00000131459	579	716	876	1310	1251	1761
## ENSG00000113300	477	537	659	425	483	569
## ENSG00000161055	1	0	0	1	0	0
## ENSG00000037280	6	4	4	4	1	1
## ENSG00000174339	0	0	0	0	0	0
## ENSG00000131446	2821	3271	4167	3349	3853	4313
## ENSG00000196670	127	134	169	163	151	188
## ENSG00000113303	0	0	0	0	0	0
## ENSG00000168903	0	0	0	0	0	0
## ENSG00000165810	0	0	0	0	0	0
## ENSG00000185372	0	0	0	0	0	0
## ENSG00000182613	0	0	0	0	0	0
## ENSG00000146054	3	9	11	5	8	6
## ENSG00000146063	354	360	459	475	547	623
## ENSG00000204628	11442	12638	16323	10669	11912	13500
## ENSG00000183718	79	71	99	98	112	130
## ENSG00000230178	0	0	0	0	0	0
## ENSG00000112679	147	149	214	155	171	218
## ENSG00000137265	0	2	0	0	1	0
## ENSG00000112685	715	843	1041	565	668	791
## ENSG00000188996	2	2	4	3	2	0
## ENSG00000164379	2	0	5	40	34	30
## ENSG00000137273	234	287	356	467	526	667
## ENSG00000054598	259	302	395	498	556	701
## ENSG00000112699	175	231	292	149	167	191
## ENSG00000145949	6	11	9	9	12	10
## ENSG00000124535	649	646	857	1157	1150	1420
## ENSG00000021355	200	267	285	147	173	193
## ENSG00000170542	45	73	77	58	74	73
## ENSG00000124570	1123	1321	1482	1222	1361	1627
## ENSG00000124588	349	382	436	288	295	391
## ENSG00000137275	480	530	685	532	584	720
## ENSG00000137274	82	105	110	59	91	77
## ENSG00000137267	1207	1384	1847	440	536	500
## ENSG00000137285	141	122	172	53	73	61
## ENSG00000180822	114	119	165	111	142	134
## ENSG00000137266	77	90	98	208	164	234
## ENSG00000168994	701	859	1078	606	681	726
## ENSG00000145945	77	93	112	57	56	70
## ENSG00000112739	883	981	1326	1253	1338	1516
## ENSG00000145975	0	0	1	3	2	2
## ENSG00000185689	4	4	4	1	4	5
## ENSG00000198721	580	694	815	531	587	602
## ENSG00000153046	400	439	557	649	797	858
## ENSG00000124787	81	115	138	83	108	94
## ENSG00000219607	7	13	13	11	8	13
## ENSG00000214113	183	235	264	164	209	246
## ENSG00000145982	106	116	147	95	115	122

## ENSG00000124785	0	1	4	1	2	0
## ENSG00000124491	0	0	0	0	0	0
## ENSG00000112799	0	0	0	0	0	0
## ENSG00000124782	408	467	581	458	478	568
## ENSG00000124783	3773	4500	5574	4172	4906	5207
## ENSG00000164304	0	0	1	0	0	0
## ENSG00000124784	263	295	362	295	361	357
## ENSG00000096696	1837	2050	2352	4871	5718	5754
## ENSG00000168566	248	313	365	324	396	422
## ENSG00000153162	11	20	19	21	29	37
## ENSG00000259040	0	0	0	1	0	0
## ENSG00000239264	136	154	229	108	121	130
## ENSG00000188428	136	157	157	119	152	153
## ENSG00000265818	0	0	0	0	0	0
## ENSG00000124802	110	135	158	141	158	183
## ENSG00000124786	441	599	693	708	762	836
## ENSG00000181355	0	0	0	1	0	0
## ENSG00000137203	77	67	99	58	61	60
## ENSG00000111846	43	59	70	85	108	157
## ENSG00000137434	1	2	0	2	2	0
## ENSG00000111845	247	320	385	305	330	406
## ENSG00000111843	935	1056	1290	1264	1355	1571
## ENSG00000137210	289	340	398	225	274	301
## ENSG00000272162	0	0	0	0	0	0
## ENSG00000111837	4	5	3	0	4	7
## ENSG00000124827	0	0	0	0	0	0
## ENSG00000153157	1	0	0	0	0	0
## ENSG00000197977	193	245	266	25	45	26
## ENSG00000224531	418	464	587	740	840	1056
## ENSG00000244476	0	0	0	0	0	0
## ENSG00000111859	378	425	522	214	319	331
## ENSG00000205269	29	33	49	41	31	49
## ENSG00000111863	10	17	33	15	16	28
## ENSG00000095951	475	523	662	542	634	712
## ENSG00000078401	157	196	285	98	198	211
## ENSG00000112137	1	1	0	2	5	3
## ENSG00000145979	138	171	229	237	259	283
## ENSG00000145990	75	114	112	75	76	81
## ENSG00000124523	76	79	114	66	65	90
## ENSG00000225921	641	761	944	655	761	827
## ENSG00000010017	718	772	957	1087	1322	1534
## ENSG00000050393	349	409	528	323	345	418
## ENSG00000180537	85	128	144	84	97	115
## ENSG00000112149	33	30	44	15	11	17
## ENSG00000008083	349	388	494	974	911	1345
## ENSG00000047579	110	121	160	140	155	204
## ENSG00000007944	34	36	41	43	58	58
## ENSG00000137198	86	112	142	55	74	77
## ENSG00000124788	360	445	505	751	833	956
## ENSG00000230873	0	0	0	0	0	0
## ENSG00000112183	182	242	293	214	312	312
## ENSG00000112186	839	890	1177	145	227	190
## ENSG00000137414	563	688	814	395	482	493
## ENSG00000124789	941	1122	1326	1072	1241	1462

## ENSG00000137177	1370	1632	1896	1692	1970	2180
## ENSG00000187566	14	18	23	14	7	19
## ENSG00000137364	365	425	517	224	258	267
## ENSG00000165097	304	348	429	199	252	256
## ENSG00000124795	1592	1957	2254	648	770	899
## ENSG00000137393	36	40	52	15	19	29
## ENSG00000172201	53	60	72	131	147	175
## ENSG00000172197	14	20	26	4	8	15
## ENSG00000112242	401	492	634	490	550	693
## ENSG00000145996	120	147	161	106	121	126
## ENSG00000124766	682	744	933	4168	4192	5605
## ENSG00000172179	1	0	0	0	0	1
## ENSG00000112273	0	0	0	0	0	0
## ENSG00000152954	0	0	0	0	0	0
## ENSG00000146038	0	0	3	0	0	0
## ENSG00000146049	0	0	0	0	0	0
## ENSG00000124532	273	344	369	254	301	340
## ENSG00000112293	1	6	9	1	1	3
## ENSG00000112294	34	31	51	9	16	18
## ENSG00000137261	2	4	4	4	5	9
## ENSG00000111802	447	490	598	711	803	990
## ENSG00000112304	142	202	218	193	225	218
## ENSG00000112308	2241	2403	2975	1460	1619	1744
## ENSG00000112312	156	215	257	64	85	107
## ENSG00000260286	0	0	0	0	0	0
## ENSG00000282804	0	0	0	0	0	0
## ENSG00000111913	86	74	104	81	118	91
## ENSG00000079691	80	84	127	65	98	93
## ENSG00000079689	0	0	0	0	0	0
## ENSG00000164508	0	0	0	0	0	0
## ENSG00000146047	0	0	0	0	0	0
## ENSG00000146039	0	0	0	0	0	0
## ENSG00000124568	0	0	0	0	0	0
## ENSG00000124564	0	0	0	0	0	0
## ENSG00000112337	0	0	0	0	0	0
## ENSG00000112343	342	396	467	489	511	606
## ENSG00000124610	0	0	0	0	0	0
## ENSG00000275714	1	4	0	0	0	2
## ENSG00000278637	0	0	0	0	0	0
## ENSG00000278705	0	0	1	0	0	0
## ENSG00000274267	2	2	4	0	2	2
## ENSG00000278463	0	0	0	0	0	0
## ENSG00000276410	1	0	0	0	2	0
## ENSG00000278272	0	1	2	1	1	1
## ENSG00000187837	222	243	341	307	359	366
## ENSG00000010704	165	188	239	141	157	142
## ENSG00000197061	0	1	1	3	0	4
## ENSG00000187475	0	0	0	2	0	1
## ENSG00000180596	70	68	102	105	111	125
## ENSG00000180573	544	675	781	1377	1585	1834
## ENSG00000168298	2	1	0	1	0	1
## ENSG00000158373	89	100	111	287	280	312
## ENSG00000274290	1	2	1	2	0	0
## ENSG00000277157	4	1	2	2	0	0

## ENSG00000197409	22	18	28	28	20	19
## ENSG00000196866	5	7	14	10	9	6
## ENSG00000277224	0	1	0	3	3	1
## ENSG00000276966	2	3	7	8	10	7
## ENSG00000273802	23	32	37	44	55	66
## ENSG00000277075	2	4	7	10	5	16
## ENSG00000274750	4	11	9	5	14	12
## ENSG00000124575	1	0	1	0	1	2
## ENSG00000274618	0	0	0	0	0	0
## ENSG00000275663	0	0	0	0	0	0
## ENSG00000277775	2	0	2	0	1	0
## ENSG00000275713	5	10	4	1	2	0
## ENSG00000273983	2	2	4	0	0	1
## ENSG00000278588	0	1	3	0	0	1
## ENSG00000158406	44	46	46	70	87	70
## ENSG00000186470	203	253	261	473	469	578
## ENSG00000124508	169	174	207	332	408	503
## ENSG00000026950	199	208	251	323	350	386
## ENSG00000111801	184	179	249	275	332	320
## ENSG00000112763	854	981	1299	1631	1807	2202
## ENSG00000124557	1	0	0	0	0	0
## ENSG00000182952	482	601	726	939	980	1213
## ENSG00000146109	223	286	349	312	336	418
## ENSG00000181315	113	108	141	188	175	267
## ENSG00000124635	31	27	44	73	88	99
## ENSG00000196787	31	27	55	32	40	36
## ENSG00000276180	214	201	250	207	233	246
## ENSG00000197903	527	540	685	510	621	603
## ENSG00000274997	0	1	0	0	0	0
## ENSG00000112812	0	0	2	1	0	1
## ENSG00000158553	1	0	0	0	0	0
## ENSG00000124613	15	15	23	28	37	24
## ENSG00000096654	97	76	125	124	141	173
## ENSG00000185130	0	0	1	0	1	1
## ENSG00000196747	3	6	7	17	7	8
## ENSG00000278828	23	21	32	31	42	41
## ENSG00000276368	0	0	0	0	0	0
## ENSG00000273703	1	0	0	0	0	0
## ENSG00000197238	0	1	0	1	1	0
## ENSG00000273542	3	1	6	5	7	3
## ENSG00000233822	20	14	22	25	22	19
## ENSG00000275221	0	0	0	0	0	0
## ENSG00000276903	0	1	0	1	0	0
## ENSG00000184357	1	3	3	0	0	0
## ENSG00000275379	1	0	2	2	0	0
## ENSG00000275126	0	0	0	0	1	0
## ENSG00000197153	1	0	1	0	1	0
## ENSG00000278677	0	0	0	0	0	0
## ENSG00000274641	2	1	0	1	3	2
## ENSG00000168131	0	0	0	0	0	0
## ENSG00000124657	1	1	1	1	2	0
## ENSG00000197279	3	3	5	5	4	8
## ENSG00000196812	14	13	19	23	23	30
## ENSG00000198315	393	397	500	740	734	913

## ENSG00000137185	123	92	125	180	199	243
## ENSG00000187626	64	42	64	65	65	81
## ENSG00000189134	15	11	18	12	18	19
## ENSG00000197062	117	125	142	97	116	158
## ENSG00000276302	0	1	0	0	1	1
## ENSG00000137338	93	118	126	86	72	86
## ENSG00000235109	21	19	19	26	22	32
## ENSG00000189298	74	63	78	69	87	89
## ENSG00000158691	79	70	94	111	117	139
## ENSG00000187987	14	15	23	25	31	35
## ENSG00000198704	0	0	0	0	0	0
## ENSG00000224586	0	0	0	0	0	0
## ENSG00000232040	0	1	5	2	4	10
## ENSG00000204713	763	899	1089	1178	1191	1550
## ENSG00000197935	2	5	9	6	4	8
## ENSG00000204704	0	0	0	0	0	0
## ENSG00000204703	0	0	0	0	0	0
## ENSG00000204701	0	0	0	0	0	0
## ENSG00000204700	0	0	0	0	0	0
## ENSG00000204695	0	0	0	0	0	0
## ENSG00000243729	0	0	0	0	0	0
## ENSG00000112462	0	0	0	0	0	0
## ENSG00000168787	0	0	0	0	0	0
## ENSG00000204694	0	0	0	0	0	0
## ENSG00000279941	0	0	0	0	0	0
## ENSG00000204688	0	0	0	0	0	0
## ENSG00000204687	0	0	0	0	0	0
## ENSG00000213886	0	0	0	0	0	0
## ENSG00000204681	180	147	210	210	219	251
## ENSG00000204657	0	0	1	0	0	0
## ENSG00000204655	0	0	0	0	0	0
## ENSG00000204644	0	0	0	0	0	0
## ENSG00000204642	4	5	10	4	6	10
## ENSG00000204632	8	12	7	14	11	13
## ENSG00000206503	3464	3745	4815	6172	6556	8294
## ENSG00000066379	43	48	71	85	94	104
## ENSG00000204619	605	603	829	880	1016	1184
## ENSG00000204618	14	6	12	23	22	16
## ENSG00000204616	1	0	0	0	0	1
## ENSG00000204614	0	0	0	0	0	0
## ENSG00000204613	0	0	0	0	0	0
## ENSG00000204610	0	0	0	0	0	0
## ENSG00000234127	500	655	805	669	680	846
## ENSG00000204599	105	81	134	124	141	149
## ENSG00000248167	0	0	0	0	0	0
## ENSG00000241370	9	8	7	6	2	8
## ENSG00000204592	2125	2353	2977	3981	4396	5435
## ENSG00000204590	1018	1137	1498	1300	1428	1665
## ENSG00000204576	145	142	202	190	197	238
## ENSG00000204574	1600	1734	2284	1989	2024	2595
## ENSG00000204569	985	984	1257	1572	1364	1826
## ENSG00000204568	390	487	582	452	465	547
## ENSG00000137343	74	86	108	172	194	197
## ENSG00000204564	108	115	124	109	123	137

## ENSG00000204560	676	752	981	869	915	1147
## ENSG00000146112	2498	2828	3538	4429	4511	5642
## ENSG00000137404	174	217	273	122	111	141
## ENSG00000137337	442	523	704	331	317	368
## ENSG00000196230	18515	22340	28652	10735	12658	13924
## ENSG00000137312	1475	1647	2271	1508	1636	1941
## ENSG00000137331	902	932	1127	3723	3553	5244
## ENSG00000204580	762	846	1080	2298	2250	2976
## ENSG00000213780	1	2	2	2	8	6
## ENSG00000137411	204	185	298	191	226	260
## ENSG00000196260	0	0	0	0	0	0
## ENSG00000168631	0	0	0	0	0	0
## ENSG00000204544	0	0	0	0	0	0
## ENSG00000261272	0	0	0	0	0	0
## ENSG00000204542	0	0	0	0	0	0
## ENSG00000204540	5	3	6	3	1	2
## ENSG00000204539	0	0	1	0	0	0
## ENSG00000204538	0	0	0	0	0	0
## ENSG00000204536	147	157	199	93	114	133
## ENSG00000137310	305	406	539	55	101	74
## ENSG00000204531	2	2	5	2	0	0
## ENSG00000206344	5	6	6	3	0	2
## ENSG00000204525	2427	2753	3510	3753	4240	5021
## ENSG00000234745	2514	2678	3567	3325	3887	4288
## ENSG00000204520	800	849	1063	1323	1422	1627
## ENSG00000204516	185	190	225	273	305	327
## ENSG00000204511	0	0	0	0	0	0
## ENSG00000198563	484	491	577	696	817	955
## ENSG00000254870	0	0	0	0	0	0
## ENSG00000213760	21	15	18	19	27	25
## ENSG00000204498	122	144	155	152	161	185
## ENSG00000226979	0	0	0	0	0	1
## ENSG00000232810	0	0	0	1	0	0
## ENSG00000227507	0	0	0	1	0	0
## ENSG00000204482	0	0	0	0	2	0
## ENSG00000204475	0	0	1	0	0	0
## ENSG00000204472	0	0	0	0	0	0
## ENSG00000204469	5080	5734	7382	4771	5270	6233
## ENSG00000204463	2621	2956	4047	4632	4794	6024
## ENSG00000204444	12	12	11	11	24	14
## ENSG00000204439	197	227	265	377	394	493
## ENSG00000204438	160	204	265	326	303	405
## ENSG00000204435	319	399	545	516	555	634
## ENSG00000263020	1	1	0	0	0	1
## ENSG00000240053	10	9	18	10	12	20
## ENSG00000204428	15	13	22	29	32	37
## ENSG00000204427	15	19	30	54	40	52
## ENSG00000204422	0	0	0	0	0	0
## ENSG00000204424	0	0	0	0	0	0
## ENSG00000250641	0	0	0	0	0	0
## ENSG00000255552	0	0	0	0	0	0
## ENSG00000244355	0	0	0	0	0	0
## ENSG00000204420	0	1	0	0	0	2
## ENSG00000204421	0	0	0	0	0	0

## ENSG00000213722	604	703	830	907	1001	1263
## ENSG00000213719	5135	6136	7524	5711	6105	7415
## ENSG00000204410	8	8	14	4	7	6
## ENSG00000255152	0	0	0	0	0	0
## ENSG00000228727	1	0	1	0	1	1
## ENSG00000204396	7	8	14	7	6	13
## ENSG00000204394	2169	2571	3349	1150	1357	1510
## ENSG00000204392	197	222	275	194	224	256
## ENSG00000204390	10	24	21	27	22	30
## ENSG00000204389	229	213	318	343	361	413
## ENSG00000204388	174	204	288	424	401	513
## ENSG00000204387	1614	1879	2241	1485	1657	1905
## ENSG00000204386	610	632	855	1802	1792	2285
## ENSG00000204385	0	0	2	0	0	0
## ENSG00000204371	627	686	924	600	650	788
## ENSG00000166278	3	0	2	4	1	1
## ENSG00000204366	96	88	133	72	94	107
## ENSG00000244255	0	0	0	0	0	0
## ENSG00000243649	5	5	9	3	6	4
## ENSG00000204356	640	696	880	603	609	683
## ENSG00000204351	724	773	1049	869	931	1126
## ENSG00000204348	106	108	151	109	133	143
## ENSG00000204344	98	98	130	137	173	190
## ENSG00000244731	2	3	4	10	4	5
## ENSG00000279546	0	0	0	0	0	0
## ENSG00000224389	2	0	2	2	4	4
## ENSG00000231852	0	1	0	0	1	0
## ENSG00000168477	5	4	5	14	12	11
## ENSG00000213676	924	990	1290	1418	1619	1965
## ENSG00000204315	43	51	65	61	44	79
## ENSG00000204314	12	16	13	23	19	24
## ENSG00000221988	89	93	113	220	197	269
## ENSG00000258388	5	0	3	4	2	6
## ENSG00000241404	7	4	1	5	9	8
## ENSG00000204310	879	965	1254	1237	1382	1619
## ENSG00000204308	331	366	448	620	596	820
## ENSG00000204305	17	14	11	24	25	25
## ENSG00000204304	599	752	904	865	887	1086
## ENSG00000213654	124	130	178	139	154	172
## ENSG00000204301	8	2	10	8	11	16
## ENSG00000204296	0	0	0	0	0	0
## ENSG00000204290	0	0	0	0	0	0
## ENSG00000204287	0	0	0	0	0	1
## ENSG00000198502	0	0	0	0	0	0
## ENSG00000196126	0	0	0	0	0	0
## ENSG00000196735	0	0	0	0	0	0
## ENSG00000179344	0	0	0	0	0	0
## ENSG00000237541	0	0	0	0	0	0
## ENSG00000232629	0	0	0	0	0	0
## ENSG00000241106	3	8	4	4	7	5
## ENSG00000250264	0	0	0	1	0	0
## ENSG00000204267	245	306	399	472	611	724
## ENSG00000204264	202	246	290	360	401	475
## ENSG00000240065	48	47	69	60	35	41



## ENSG00000168394	510	563	677	401	408	492
## ENSG00000242574	4	4	2	16	24	28
## ENSG00000248993	0	0	0	0	0	0
## ENSG00000204257	33	37	41	44	81	79
## ENSG00000204256	2144	2265	3065	2921	3131	3762
## ENSG00000204252	0	0	1	1	0	0
## ENSG00000231389	0	0	0	0	0	1
## ENSG00000223865	37	43	57	42	54	77
## ENSG00000204248	12	8	11	14	13	17
## ENSG00000204231	605	644	812	380	413	454
## ENSG00000112473	4088	4578	5752	6437	6878	7817
## ENSG00000204228	3	4	6	3	2	4
## ENSG00000204227	489	543	732	510	554	686
## ENSG00000223501	368	448	554	425	482	578
## ENSG00000231500	10864	12222	14724	10162	11306	12673
## ENSG00000235863	7	7	14	15	14	11
## ENSG00000227057	860	1030	1243	877	1028	1158
## ENSG00000204220	284	347	381	314	356	414
## ENSG00000237441	337	378	448	655	622	807
## ENSG00000231925	2358	2700	3263	3241	3457	4220
## ENSG00000236104	225	265	288	337	409	494
## ENSG00000204209	1247	1440	1826	1113	1244	1334
## ENSG00000237649	396	574	775	80	106	108
## ENSG00000112511	560	641	829	610	748	843
## ENSG00000112514	1513	1715	2209	1781	2013	2276
## ENSG00000197283	234	258	335	355	427	514
## ENSG00000213588	0	0	0	0	0	0
## ENSG00000030110	337	399	512	737	765	965
## ENSG00000096433	209	278	402	206	207	267
## ENSG00000137288	287	313	360	191	212	235
## ENSG00000161896	3	6	2	1	5	2
## ENSG00000161904	692	740	988	900	987	1165
## ENSG00000096395	0	0	0	1	1	0
## ENSG00000124493	3	1	0	11	7	21
## ENSG00000137309	15622	17943	23902	15673	16030	19657
## ENSG00000186577	184	207	279	429	423	569
## ENSG00000272325	286	385	388	413	433	482
## ENSG00000270800	0	0	0	0	0	1
## ENSG00000124614	36	64	55	58	56	75
## ENSG00000124507	0	0	1	0	1	1
## ENSG00000124664	0	1	0	0	2	0
## ENSG00000196821	1449	1642	2135	2540	2796	3320
## ENSG00000124562	802	934	1151	779	810	1067
## ENSG00000065060	329	349	449	82	83	84
## ENSG00000064995	228	245	296	434	500	593
## ENSG00000064999	447	486	630	505	590	657
## ENSG00000124678	3	3	5	1	0	2
## ENSG00000146197	1635	1868	2515	1368	1610	1658
## ENSG00000065029	201	249	295	260	293	368
## ENSG00000023892	18	16	22	8	7	6
## ENSG00000112033	1329	1546	2047	1577	1652	1951
## ENSG00000112039	95	106	142	46	49	53
## ENSG00000198755	4677	5625	6878	5132	5930	6791
## ENSG00000007866	677	772	1013	629	789	852

## ENSG00000112041	1	0	0	2	1	1
## ENSG00000096060	225	252	352	145	173	190
## ENSG00000157343	4	3	1	2	1	2
## ENSG00000196748	0	0	0	0	0	0
## ENSG00000204140	0	0	0	0	0	0
## ENSG00000137392	0	0	0	0	0	0
## ENSG00000197753	0	0	0	0	0	1
## ENSG00000096063	1085	1287	1532	1321	1513	1719
## ENSG00000112053	3	2	1	2	1	2
## ENSG00000112062	885	966	1181	986	1143	1313
## ENSG00000156711	95	128	146	231	262	318
## ENSG00000096070	855	963	1249	1040	1107	1315
## ENSG00000180316	0	1	0	0	0	0
## ENSG00000189325	0	0	0	0	0	0
## ENSG00000010030	1	2	5	9	7	7
## ENSG00000179165	0	0	0	0	0	0
## ENSG00000112078	1987	2305	2816	1703	2029	2227
## ENSG00000112079	839	904	1225	976	1005	1169
## ENSG00000112081	2558	3010	3793	1779	2161	2446
## ENSG00000124762	10157	10966	14153	42718	44929	53426
## ENSG00000255587	1	1	0	1	0	0
## ENSG00000124772	2	3	1	0	0	3
## ENSG00000137168	373	480	559	265	344	342
## ENSG00000198663	1723	1973	2347	1868	2230	2411
## ENSG00000164530	3	5	8	7	9	10
## ENSG00000137409	4229	4944	6243	4714	5152	5954
## ENSG00000146192	0	0	1	0	0	2
## ENSG00000137193	167	211	262	57	101	89
## ENSG00000172738	38	39	54	50	69	47
## ENSG00000065491	147	179	221	230	223	253
## ENSG00000112130	285	340	353	402	393	491
## ENSG00000137200	663	744	967	710	740	876
## ENSG00000198937	126	132	194	77	108	109
## ENSG00000112139	341	435	537	616	610	716
## ENSG00000156639	1453	1682	2166	1508	1721	1916
## ENSG00000183826	450	481	614	692	816	1070
## ENSG00000124767	1404	1688	2063	1072	1300	1464
## ENSG00000124721	0	1	0	0	0	0
## ENSG00000112164	0	0	0	0	0	0
## ENSG00000112167	93	116	158	171	185	243
## ENSG00000164626	0	0	1	0	0	0
## ENSG00000124780	0	0	0	0	0	0
## ENSG00000095981	0	0	0	0	0	0
## ENSG00000164627	6	5	4	3	2	3
## ENSG00000146122	280	306	357	168	237	204
## ENSG00000124615	182	207	270	128	148	174
## ENSG00000156564	0	0	0	0	0	0
## ENSG00000124602	1	0	0	1	0	0
## ENSG00000124596	107	127	146	141	195	214
## ENSG00000112212	0	0	0	0	0	0
## ENSG00000124701	0	0	0	0	0	1
## ENSG00000001167	561	603	715	643	671	944
## ENSG00000161911	0	0	0	0	0	0
## ENSG00000095970	0	0	0	0	0	0

## ENSG00000112195	0	0	0	0	0	0
## ENSG00000188056	0	0	0	0	0	0
## ENSG00000124731	2	1	1	1	6	6
## ENSG00000096264	0	0	0	0	0	0
## ENSG00000137166	476	525	738	577	639	759
## ENSG00000112559	1	2	3	6	3	6
## ENSG00000112561	78	91	120	49	54	60
## ENSG00000096088	0	0	0	0	0	0
## ENSG00000137218	22	19	32	43	36	41
## ENSG00000124593	18	15	25	20	28	26
## ENSG00000278224	0	1	0	0	0	1
## ENSG00000214736	0	0	0	0	0	0
## ENSG00000164663	69	79	104	96	96	126
## ENSG00000124641	308	367	457	364	440	480
## ENSG00000112578	416	462	576	468	450	581
## ENSG00000112576	1290	1518	1886	1451	1615	1958
## ENSG00000137413	205	223	247	257	290	309
## ENSG00000188112	182	219	252	86	114	96
## ENSG00000048545	2	2	2	1	0	1
## ENSG00000214732	0	0	0	0	0	0
## ENSG00000112599	3	8	7	8	9	16
## ENSG00000048544	631	715	886	726	945	1093
## ENSG00000124496	551	634	829	439	506	574
## ENSG00000024048	762	850	1068	734	853	951
## ENSG00000112619	20	18	23	15	11	20
## ENSG00000124659	249	303	389	380	406	512
## ENSG00000112624	164	211	252	235	237	277
## ENSG00000146223	2089	2447	3137	2753	2956	3597
## ENSG00000221821	23	22	26	46	44	60
## ENSG00000171611	0	0	0	1	0	0
## ENSG00000137161	463	440	600	654	670	780
## ENSG00000124713	5	1	1	2	7	7
## ENSG00000124587	515	574	647	328	332	373
## ENSG00000112640	977	1088	1353	926	986	1066
## ENSG00000124733	594	724	912	807	786	951
## ENSG00000124702	1008	1209	1449	1431	1696	1988
## ENSG00000124541	710	850	1047	827	910	1152
## ENSG00000044090	980	1098	1369	1648	1766	2110
## ENSG00000137171	163	163	231	143	151	183
## ENSG00000112651	237	245	302	186	233	230
## ENSG00000112655	2767	3029	4002	4114	4374	5115
## ENSG00000112658	1112	1340	1677	1106	1271	1448
## ENSG00000112659	212	220	272	540	517	629
## ENSG00000112667	142	153	208	140	152	161
## ENSG00000146216	2	3	10	6	5	7
## ENSG00000137204	0	0	0	0	0	0
## ENSG00000146215	1	0	0	0	0	0
## ENSG00000171467	419	506	645	442	425	502
## ENSG00000124574	485	542	758	789	744	988
## ENSG00000171462	13	19	26	15	15	14
## ENSG00000137221	301	308	439	355	359	474
## ENSG00000204052	9	11	14	31	36	38
## ENSG00000171453	185	198	278	257	273	322
## ENSG00000137207	1947	2147	2851	4213	4314	5228

## ENSG00000124571	798	882	1141	746	735	959
## ENSG00000170734	577	561	817	510	541	620
## ENSG00000172432	530	663	845	882	947	1188
## ENSG00000124688	212	267	325	263	280	342
## ENSG00000172426	2	2	5	4	4	7
## ENSG00000096080	119	126	160	101	119	114
## ENSG00000112715	862	922	1123	1289	1349	1616
## ENSG00000181577	0	0	0	0	0	1
## ENSG00000180992	400	448	576	388	400	473
## ENSG00000137216	761	877	1170	1612	1631	2028
## ENSG00000137225	0	0	0	0	0	1
## ENSG00000112759	169	227	288	134	161	136
## ENSG00000096384	14809	16852	21616	14643	16086	18924
## ENSG00000157593	1409	1635	2027	2786	2950	3566
## ENSG00000146232	239	225	263	270	276	347
## ENSG00000178233	1	0	0	1	3	4
## ENSG00000272442	1	2	0	0	0	1
## ENSG00000146221	3	7	9	7	7	8
## ENSG00000124608	248	270	360	161	201	210
## ENSG00000249481	0	0	0	0	0	0
## ENSG00000096401	676	892	1004	908	1011	1094
## ENSG00000196284	81	74	97	77	76	80
## ENSG00000124813	204	242	286	499	567	685
## ENSG00000112782	0	0	0	0	1	0
## ENSG00000001561	9	8	15	17	20	22
## ENSG00000112796	0	1	0	0	0	0
## ENSG00000172348	55	62	62	17	10	15
## ENSG00000146233	0	0	1	0	3	1
## ENSG00000153291	2	1	2	4	7	11
## ENSG00000180113	2	0	0	1	0	0
## ENSG00000146070	0	0	0	0	0	0
## ENSG00000230062	0	0	0	0	0	0
## ENSG00000112818	0	0	0	0	0	0
## ENSG00000069122	0	0	0	0	0	0
## ENSG00000153292	0	0	0	0	0	0
## ENSG00000146072	540	650	758	2607	2904	3649
## ENSG00000198087	778	878	1114	663	816	871
## ENSG00000164393	0	0	0	0	0	0
## ENSG00000153294	1	0	1	2	7	5
## ENSG00000124818	0	0	0	0	0	0
## ENSG00000244694	55	71	97	220	254	294
## ENSG00000146085	376	424	507	469	563	607
## ENSG00000031691	56	65	75	28	48	40
## ENSG00000203972	0	0	0	0	0	0
## ENSG00000197261	0	0	0	0	0	0
## ENSG00000112077	0	0	0	0	0	0
## ENSG00000124490	0	0	0	0	0	0
## ENSG00000096006	0	0	0	0	0	0
## ENSG00000170950	0	0	1	0	0	0
## ENSG00000124812	0	0	0	0	0	0
## ENSG00000214643	0	0	0	0	0	0
## ENSG00000177684	0	0	0	0	0	0
## ENSG00000214642	0	0	0	0	0	0
## ENSG00000203970	0	0	0	0	0	0

## ENSG00000180872	0	0	0	0	0	0
## ENSG00000008197	0	0	0	0	0	0
## ENSG00000008196	0	0	0	0	0	0
## ENSG00000170927	0	0	0	0	0	0
## ENSG00000112115	0	0	0	0	0	0
## ENSG00000112116	0	0	0	0	0	0
## ENSG00000112118	574	706	975	327	395	437
## ENSG00000170915	70	68	96	73	92	100
## ENSG00000096093	133	121	182	177	194	250
## ENSG00000065308	4753	5555	6633	2342	2916	2821
## ENSG00000096092	176	233	263	81	108	109
## ENSG00000244067	0	0	0	0	0	0
## ENSG00000243955	1	0	1	0	0	0
## ENSG00000182793	0	0	0	0	0	0
## ENSG00000174156	0	0	0	0	0	0
## ENSG00000170899	197	237	271	200	233	252
## ENSG00000112144	436	509	625	136	176	179
## ENSG00000112146	834	956	1117	913	1124	1300
## ENSG00000137270	0	0	0	0	0	0
## ENSG00000012660	1118	1356	1726	1460	1750	1963
## ENSG00000001084	399	479	602	1178	1433	1477
## ENSG00000124743	3	3	1	4	3	3
## ENSG00000137269	117	123	177	178	235	231
## ENSG00000146147	0	0	0	0	0	0
## ENSG00000137251	0	0	0	0	0	0
## ENSG00000168143	0	1	0	0	0	0
## ENSG00000137252	0	0	2	0	0	0
## ENSG00000187871	0	0	0	0	0	0
## ENSG00000146151	0	0	0	1	0	1
## ENSG00000112175	0	0	0	0	1	1
## ENSG00000124749	2	1	1	7	2	5
## ENSG00000151914	7996	8245	8684	9083	10753	10460
## ENSG00000151917	191	225	284	95	95	107
## ENSG00000168116	158	184	190	171	203	239
## ENSG00000112200	382	428	525	621	662	771
## ENSG00000112208	760	886	987	467	620	637
## ENSG00000112210	391	438	557	470	536	637
## ENSG00000146143	257	287	367	149	141	171
## ENSG00000279892	0	0	0	0	0	0
## ENSG00000112232	0	0	0	0	0	0
## ENSG00000198225	22	34	55	16	41	31
## ENSG00000146166	0	0	0	0	2	1
## ENSG00000112245	2909	3529	4569	7805	8657	10755
## ENSG00000118482	812	874	1085	873	1003	1175
## ENSG00000188107	4	5	7	14	12	15
## ENSG00000135298	0	0	0	2	3	4
## ENSG00000168216	258	324	387	232	249	292
## ENSG00000082293	1	0	0	1	1	2
## ENSG00000112280	0	0	0	0	1	1
## ENSG00000082269	103	134	148	179	241	271
## ENSG00000154079	43	47	59	55	61	73
## ENSG00000112305	132	156	201	114	127	136
## ENSG00000112309	2	3	1	4	1	7
## ENSG00000119900	693	875	1098	1720	1865	2726

## ENSG00000079841	39	38	47	22	27	29
## ENSG00000185760	89	124	180	21	27	34
## ENSG00000243501	0	1	0	0	0	0
## ENSG00000256980	0	0	0	1	0	0
## ENSG00000135314	30	26	45	29	47	43
## ENSG00000203909	0	0	0	0	0	0
## ENSG00000203908	0	0	0	0	0	0
## ENSG00000203907	0	0	0	0	0	0
## ENSG00000080007	3	1	1	3	2	1
## ENSG00000164430	49	77	74	55	55	57
## ENSG00000135297	238	303	345	229	290	288
## ENSG00000156508	88958	96102	121228	108778	119459	140121
## ENSG00000119899	986	1110	1417	1699	1935	2282
## ENSG00000156535	583	698	785	1282	1364	1607
## ENSG00000111799	22004	26236	28685	46617	54034	61957
## ENSG00000112695	839	952	1248	900	1053	1123
## ENSG00000112697	5001	6063	7396	10390	12139	14298
## ENSG00000118407	1	4	3	5	4	3
## ENSG00000112701	884	1018	1239	1066	1211	1429
## ENSG00000196586	691	806	999	1620	1737	2132
## ENSG00000112706	3	1	3	2	8	2
## ENSG00000135312	3	2	5	2	2	5
## ENSG00000269964	0	2	3	1	0	0
## ENSG00000146243	37	33	41	26	28	22
## ENSG00000146247	740	823	1013	1166	1393	1597
## ENSG00000118418	188	228	276	168	154	173
## ENSG00000135338	84	98	107	143	150	177
## ENSG00000198478	175	204	284	203	255	329
## ENSG00000118402	197	245	276	369	389	521
## ENSG00000281602	0	0	0	0	0	0
## ENSG00000112742	281	328	390	32	46	48
## ENSG00000083123	186	179	219	96	142	139
## ENSG00000112773	451	478	577	728	899	869
## ENSG00000005700	1168	1350	1637	1432	1802	1859
## ENSG00000146242	2038	2269	3129	5467	5142	7245
## ENSG00000118420	39	62	82	49	69	63
## ENSG00000083097	275	286	341	232	267	324
## ENSG00000281446	0	0	0	0	0	0
## ENSG00000013375	1972	2348	2877	1451	1768	1780
## ENSG00000013392	125	154	204	87	145	144
## ENSG00000065833	1161	1300	1533	1465	1553	1950
## ENSG00000146250	109	87	120	276	270	387
## ENSG00000065609	1	0	1	1	0	1
## ENSG00000203877	0	0	2	0	0	0
## ENSG00000065615	233	266	303	206	222	258
## ENSG00000135324	0	0	2	1	0	0
## ENSG00000135315	46	51	50	96	96	121
## ENSG00000112837	5	16	17	9	6	11
## ENSG00000135318	11438	13069	16933	5813	6569	8179
## ENSG00000135317	710	815	954	1053	1237	1417
## ENSG00000271793	0	0	0	0	0	0
## ENSG00000135316	2837	3495	4268	3189	3671	4361
## ENSG00000168830	0	0	0	0	0	0
## ENSG00000135346	0	0	1	3	1	3

## ENSG00000188994	446	446	571	569	682	750
## ENSG00000164411	0	0	0	0	1	1
## ENSG00000111850	30	54	71	32	41	52
## ENSG00000203872	2	2	3	4	4	5
## ENSG00000272514	1	0	0	0	0	0
## ENSG00000213204	2	4	8	2	3	3
## ENSG00000164414	63	61	74	75	94	115
## ENSG00000146282	590	757	886	646	723	845
## ENSG00000135336	328	404	511	325	394	388
## ENSG00000135334	435	538	668	457	494	612
## ENSG00000118434	0	0	0	0	0	0
## ENSG00000118432	0	0	0	0	0	1
## ENSG00000111880	441	478	622	294	355	423
## ENSG00000146278	368	368	498	707	764	936
## ENSG00000154548	10	11	10	13	8	15
## ENSG00000146281	184	250	308	151	177	215
## ENSG00000146276	0	0	0	0	0	0
## ENSG00000111886	2	1	3	1	1	2
## ENSG00000198833	1259	1444	1976	876	1053	1172
## ENSG00000025039	1	0	1	5	10	20
## ENSG00000135299	3	4	5	3	6	1
## ENSG00000083099	435	535	635	558	670	796
## ENSG00000112159	1003	1295	1250	918	969	1076
## ENSG00000118412	217	240	325	229	259	332
## ENSG00000135355	0	0	0	0	0	0
## ENSG00000112182	32	35	30	43	55	51
## ENSG00000135341	1019	1064	1343	1069	1117	1354
## ENSG00000135333	0	0	2	25	26	24
## ENSG00000172469	237	305	357	272	309	380
## ENSG00000172461	0	0	0	0	0	0
## ENSG00000014123	524	552	753	453	514	551
## ENSG00000112214	0	0	0	0	0	0
## ENSG00000112218	44	45	49	34	46	60
## ENSG00000123545	149	209	210	260	254	363
## ENSG00000186231	0	1	0	0	0	0
## ENSG00000146263	147	184	199	89	102	96
## ENSG00000184486	1	1	0	0	0	0
## ENSG00000112234	266	290	370	271	275	319
## ENSG00000146267	27	19	25	28	33	41
## ENSG00000132423	69	67	113	36	55	54
## ENSG00000132424	613	633	894	922	1026	1204
## ENSG00000123552	129	184	222	264	296	348
## ENSG00000112237	635	805	932	468	630	738
## ENSG00000112238	1	0	0	0	0	1
## ENSG00000152034	0	0	0	0	1	0
## ENSG00000112246	0	0	0	0	0	1
## ENSG00000112249	2601	2961	3666	3373	4124	4299
## ENSG00000164418	220	282	326	288	377	340
## ENSG00000085382	185	206	278	423	552	605
## ENSG00000187772	0	0	0	1	0	0
## ENSG00000112276	325	422	499	581	655	837
## ENSG00000132429	225	310	342	348	314	455
## ENSG00000085377	572	658	802	652	782	963
## ENSG00000057657	123	156	210	1007	1356	1562

## ENSG00000057663	384	462	563	392	464	559
## ENSG00000112297	218	268	318	36	62	52
## ENSG00000130347	91	107	136	58	54	78
## ENSG00000130348	197	244	313	148	164	186
## ENSG00000272398	2	4	0	4	7	5
## ENSG00000130349	115	171	183	143	173	187
## ENSG00000178409	75	62	91	104	131	124
## ENSG00000164494	233	254	349	293	323	381
## ENSG00000112320	116	128	151	90	77	99
## ENSG00000146285	0	0	0	0	0	0
## ENSG00000025796	1719	2019	2339	2175	2577	2882
## ENSG00000081087	1018	1081	1314	1077	1240	1570
## ENSG00000112333	0	0	0	0	0	0
## ENSG00000112335	1735	2081	2577	1831	2068	2425
## ENSG00000135537	38	29	57	25	45	36
## ENSG00000118689	828	985	1162	691	841	932
## ENSG00000118690	22	28	43	25	39	23
## ENSG00000080546	234	239	314	429	529	581
## ENSG00000183137	153	220	234	68	79	79
## ENSG00000135535	4728	5261	6783	5786	6588	7461
## ENSG00000185250	4	2	3	5	2	5
## ENSG00000135587	39	50	61	45	47	61
## ENSG00000135596	901	1046	1352	1009	1139	1334
## ENSG00000112365	121	158	204	139	150	191
## ENSG00000155085	52	46	45	54	58	58
## ENSG00000112367	178	232	285	149	199	232
## ENSG00000146360	0	0	0	0	0	0
## ENSG00000112290	237	244	337	243	295	367
## ENSG00000168438	287	318	444	460	584	644
## ENSG00000053328	0	0	0	0	0	0
## ENSG00000203797	0	1	3	0	2	0
## ENSG00000004809	0	0	0	0	1	0
## ENSG00000155111	298	374	458	708	806	956
## ENSG00000123505	1018	1370	1646	1327	1420	1912
## ENSG00000155115	549	672	828	818	958	1256
## ENSG00000197498	432	463	576	279	280	345
## ENSG00000112394	0	0	0	0	0	0
## ENSG00000173214	143	152	178	233	202	316
## ENSG00000009413	620	606	789	827	993	1038
## ENSG00000056972	111	133	186	215	217	254
## ENSG00000010810	381	441	538	353	422	488
## ENSG00000112761	1	0	1	0	0	1
## ENSG00000074935	106	123	134	91	82	99
## ENSG00000203778	110	135	171	138	170	170
## ENSG00000112769	2304	2423	3023	3127	3814	3934
## ENSG00000281613	0	0	0	0	0	0
## ENSG00000251258	0	0	0	0	0	0
## ENSG00000277443	3464	4102	5334	1077	1348	1359
## ENSG00000196591	1731	2073	2591	2681	2944	3552
## ENSG00000249853	2	2	2	6	11	8
## ENSG00000111816	10	6	5	3	2	3
## ENSG00000178425	198	281	302	204	292	326
## ENSG00000123500	9	3	4	2	7	7
## ENSG00000187189	575	759	869	772	928	1051



## ENSG00000111817	1586	1820	2298	1431	1743	1994
## ENSG00000189241	1385	1469	2035	1026	1120	1293
## ENSG00000188820	4	5	5	2	1	2
## ENSG00000173626	0	0	1	0	0	1
## ENSG00000178033	390	445	590	909	1133	1270
## ENSG00000164451	0	0	0	0	0	0
## ENSG00000111832	717	793	942	641	783	817
## ENSG00000111834	4	5	4	2	7	9
## ENSG00000153975	120	139	163	182	204	207
## ENSG00000196911	133	143	178	218	239	286
## ENSG00000183807	27	28	40	12	20	17
## ENSG00000173612	0	0	0	0	0	0
## ENSG00000185002	0	0	0	0	0	0
## ENSG00000170162	0	0	0	0	0	0
## ENSG00000047936	4	1	1	3	4	5
## ENSG00000282218	0	0	0	0	0	0
## ENSG00000164465	1168	1291	1674	4321	4169	5848
## ENSG00000047932	858	959	1257	1254	1559	1720
## ENSG00000153989	917	1025	1302	879	1112	1256
## ENSG00000196376	0	2	1	4	10	7
## ENSG00000111860	144	174	191	196	244	263
## ENSG00000198523	3	10	5	24	18	22
## ENSG00000111877	57	69	102	101	77	111
## ENSG00000111875	250	313	386	128	162	209
## ENSG00000111879	0	1	4	4	0	3
## ENSG00000111885	649	745	945	1247	1244	1686
## ENSG00000146350	48	56	57	43	50	75
## ENSG00000152661	4333	4836	6169	10423	11602	15249
## ENSG00000025156	157	180	248	190	233	267
## ENSG00000111897	3961	4475	5691	6466	7451	8468
## ENSG00000135549	28	46	56	41	63	49
## ENSG00000164434	0	0	0	0	0	0
## ENSG00000172594	172	236	280	419	507	595
## ENSG00000146352	0	0	0	0	0	0
## ENSG00000186439	0	0	0	0	0	0
## ENSG00000188580	0	0	1	3	2	3
## ENSG00000146373	359	397	476	308	347	439
## ENSG00000111907	65	54	67	16	28	21
## ENSG00000111906	433	472	638	131	160	192
## ENSG00000135547	0	0	0	0	0	0
## ENSG00000111912	409	383	446	579	721	835
## ENSG00000111911	276	359	435	618	653	807
## ENSG00000066651	113	115	152	147	158	180
## ENSG00000203760	117	165	209	41	58	60
## ENSG00000146374	0	0	0	5	5	4
## ENSG00000118518	335	311	421	431	454	551
## ENSG00000093144	699	818	932	551	618	744
## ENSG00000255330	0	4	1	0	2	0
## ENSG00000189367	1	2	4	3	3	0
## ENSG00000214338	0	1	0	1	1	1
## ENSG00000184530	2	1	1	2	2	1
## ENSG00000172673	1	0	2	1	2	0
## ENSG00000152894	1902	2100	2650	6938	7418	9821
## ENSG00000196569	601	658	755	1567	1538	1986

## ENSG00000146376	712	847	1059	339	435	424
## ENSG00000203756	3	2	1	1	3	1
## ENSG00000198945	246	247	333	528	621	672
## ENSG00000164483	20	18	21	16	18	20
## ENSG00000164484	1264	1563	1857	1686	1869	2186
## ENSG00000256162	1	3	1	0	1	5
## ENSG00000079819	2896	3345	4182	1805	2302	2341
## ENSG00000118507	19	33	44	31	41	54
## ENSG00000118520	1	0	0	0	0	3
## ENSG00000112282	531	582	786	835	909	1028
## ENSG00000154269	2	1	0	0	0	0
## ENSG00000180658	0	0	0	0	0	0
## ENSG00000236761	0	0	0	0	0	0
## ENSG00000197594	538	605	815	73	101	88
## ENSG00000118523	9509	12410	15878	7257	11304	10288
## ENSG00000079931	323	361	449	310	382	372
## ENSG00000079950	587	725	904	821	869	997
## ENSG00000237110	0	0	0	0	0	0
## ENSG00000146385	0	0	0	0	0	0
## ENSG00000146383	0	0	0	0	0	0
## ENSG00000135569	0	0	0	0	0	0
## ENSG00000146378	0	0	0	0	0	0
## ENSG00000146399	0	0	0	0	0	0
## ENSG00000112299	3	1	3	2	4	4
## ENSG00000093134	0	0	0	0	0	0
## ENSG00000112303	0	0	2	1	0	3
## ENSG00000146409	101	111	153	109	144	154
## ENSG00000112306	5770	6541	7957	5738	6216	6928
## ENSG00000112319	243	261	291	840	886	1111
## ENSG00000118526	165	179	236	382	369	433
## ENSG00000028839	260	291	405	442	451	558
## ENSG00000146411	88	88	105	55	68	71
## ENSG00000118515	739	1009	1224	1633	2154	2526
## ENSG00000118514	0	1	1	3	5	12
## ENSG00000112339	971	1173	1495	976	1070	1208
## ENSG00000118513	1	7	3	1	1	1
## ENSG00000135541	362	400	466	608	616	740
## ENSG00000171408	73	102	125	108	112	101
## ENSG00000146410	35	56	45	9	17	21
## ENSG00000029363	1988	2280	2906	1749	2220	2337
## ENSG00000135525	11	16	24	45	46	59
## ENSG00000197442	654	765	905	1195	1287	1753
## ENSG00000112357	73	67	65	64	77	98
## ENSG00000182747	0	0	0	1	0	0
## ENSG00000016402	1	0	1	0	0	1
## ENSG00000164485	0	0	0	0	0	0
## ENSG00000027697	360	377	463	398	404	478
## ENSG00000177468	0	0	0	0	0	0
## ENSG00000118503	195	213	286	126	158	212
## ENSG00000112378	2156	2442	3128	3943	4141	5000
## ENSG00000112379	0	3	1	4	2	2
## ENSG00000254440	0	0	0	0	0	0
## ENSG00000051620	502	566	719	627	652	822
## ENSG00000135540	140	177	237	180	182	229

## ENSG00000279968	3	6	3	3	6	7
## ENSG0000024862	128	111	119	89	99	99
## ENSG00000203734	1	1	4	1	2	0
## ENSG00000135597	354	435	586	417	481	570
## ENSG00000146386	291	377	418	506	460	622
## ENSG00000112406	186	180	252	624	714	849
## ENSG00000164440	6	1	5	10	6	13
## ENSG00000164442	2694	3237	4392	3482	4306	4490
## ENSG00000135577	0	0	0	0	0	0
## ENSG00000203733	0	0	0	0	0	0
## ENSG00000009844	953	1088	1333	838	1005	1092
## ENSG00000112414	389	470	545	262	360	408
## ENSG00000010818	540	627	714	903	1008	1217
## ENSG00000146416	195	212	236	119	149	124
## ENSG00000189007	55	48	55	58	79	94
## ENSG00000034693	139	157	204	126	129	147
## ENSG00000001036	771	968	1210	1057	1169	1441
## ENSG00000112419	966	1156	1354	2062	2114	2727
## ENSG00000257065	0	0	0	1	0	0
## ENSG00000135521	230	267	334	298	317	362
## ENSG00000280148	0	0	0	0	0	0
## ENSG00000118491	0	0	0	0	0	0
## ENSG00000118495	401	416	539	518	606	762
## ENSG00000169976	594	723	894	768	779	958
## ENSG00000135604	9	7	10	4	3	8
## ENSG00000152818	1394	1542	1940	895	1179	1102
## ENSG00000112425	48	58	67	64	80	84
## ENSG00000280184	2	2	6	5	6	6
## ENSG00000118496	487	593	711	385	429	523
## ENSG00000146414	168	189	228	291	333	380
## ENSG00000152822	0	0	0	0	0	0
## ENSG00000118508	670	817	975	726	881	944
## ENSG00000118492	0	0	0	0	0	0
## ENSG00000164506	731	882	1056	1008	1088	1309
## ENSG00000203727	58	75	96	145	135	171
## ENSG00000111961	1044	1219	1511	1259	1383	1511
## ENSG00000111962	463	508	646	576	668	786
## ENSG00000055208	1096	1335	1605	1009	1218	1450
## ENSG00000177688	0	2	1	0	0	0
## ENSG00000178199	1	1	3	1	0	2
## ENSG00000131013	440	487	569	446	464	576
## ENSG00000055211	670	743	892	817	914	1087
## ENSG00000186625	170	224	277	151	187	209
## ENSG00000131023	424	496	562	504	565	663
## ENSG00000278899	2	2	3	0	2	2
## ENSG00000120253	418	458	647	318	343	380
## ENSG00000120265	828	1066	1226	682	844	966
## ENSG00000120256	1206	1419	1695	1881	1946	2199
## ENSG00000164520	2	1	2	2	0	4
## ENSG00000203722	39	26	43	69	88	89
## ENSG00000131015	140	176	220	227	228	288
## ENSG00000111981	38	72	76	100	84	126
## ENSG00000155918	0	1	0	1	1	0
## ENSG00000131019	75	102	135	92	95	107

## ENSG00000198729	0	0	3	2	3	0
## ENSG00000009765	0	0	0	0	0	0
## ENSG00000120278	11	14	13	40	46	53
## ENSG00000120254	1208	1250	1640	894	1034	1081
## ENSG00000131016	2213	2596	3239	4788	4974	6246
## ENSG00000181472	318	424	549	529	593	805
## ENSG00000155906	170	220	259	215	205	259
## ENSG00000146476	558	685	864	430	494	526
## ENSG00000120262	11	16	19	15	16	22
## ENSG00000091831	5	3	0	4	2	3
## ENSG00000131018	1761	2068	2072	1247	1493	1562
## ENSG00000120279	8	12	11	2	1	2
## ENSG00000146469	0	2	0	0	0	0
## ENSG00000112029	156	211	260	72	97	94
## ENSG00000112031	304	375	433	559	533	719
## ENSG00000091844	101	111	142	827	876	1085
## ENSG00000112038	0	0	0	0	0	0
## ENSG00000074706	1	2	1	1	0	1
## ENSG00000153721	360	384	463	148	211	205
## ENSG00000213079	538	727	866	546	644	751
## ENSG00000146426	62	87	108	68	68	73
## ENSG00000029639	142	183	210	306	357	432
## ENSG00000171217	5	1	1	6	4	6
## ENSG00000074771	0	1	0	0	0	0
## ENSG00000049618	844	1041	1270	1408	1436	1840
## ENSG00000215712	165	173	245	251	266	316
## ENSG00000175048	91	107	143	138	138	195
## ENSG00000130340	1252	1510	1885	3752	4125	5222
## ENSG00000078269	1782	2115	2731	2482	2607	3228
## ENSG00000122335	147	191	241	117	132	134
## ENSG00000272047	321	365	415	366	355	422
## ENSG00000130338	413	519	614	461	515	592
## ENSG00000146433	1215	1486	1771	708	780	925
## ENSG00000146425	907	1133	1336	737	858	977
## ENSG00000164674	33	44	62	41	42	41
## ENSG00000092820	1809	2104	2795	594	674	726
## ENSG00000130363	172	177	217	219	236	290
## ENSG00000164691	0	0	0	1	0	1
## ENSG00000164694	20	17	32	38	36	40
## ENSG00000112096	2292	2539	3038	1192	1315	1698
## ENSG00000146457	623	710	921	683	755	923
## ENSG00000120437	297	375	480	206	233	259
## ENSG00000120438	3021	3591	4653	3029	3489	4076
## ENSG00000112110	431	517	645	540	536	658
## ENSG00000146453	0	2	0	0	0	1
## ENSG00000130368	0	0	0	0	0	0
## ENSG00000197081	6962	7687	9301	12962	13230	16369
## ENSG00000175003	1	2	2	5	3	5
## ENSG00000112499	0	0	0	0	0	0
## ENSG00000146477	0	0	0	0	0	0
## ENSG00000198670	0	0	0	0	0	0
## ENSG00000122194	0	0	0	0	0	0
## ENSG00000085511	335	338	434	663	626	851
## ENSG00000026652	124	148	195	276	343	380

## ENSG00000185345	0	1	3	3	3	0
## ENSG00000112530	1	0	0	0	0	0
## ENSG00000112531	1637	2045	2549	2191	2675	3142
## ENSG00000112539	0	0	1	0	0	0
## ENSG00000112541	143	170	192	195	261	283
## ENSG00000164458	0	0	0	0	0	0
## ENSG00000176381	1	1	1	1	1	0
## ENSG00000198818	399	438	566	592	616	793
## ENSG00000060762	166	212	240	246	202	293
## ENSG00000071242	1520	1717	2153	2784	2898	3380
## ENSG00000249141	0	0	0	0	0	0
## ENSG00000026297	96	84	92	108	99	105
## ENSG00000213066	107	90	106	123	135	136
## ENSG00000112486	0	0	0	0	0	0
## ENSG00000166984	0	0	0	0	0	0
## ENSG00000120436	0	0	0	0	0	0
## ENSG00000112494	0	0	0	0	0	0
## ENSG00000120440	0	0	0	0	0	0
## ENSG00000203690	0	0	0	0	0	0
## ENSG00000130396	443	479	624	396	434	500
## ENSG00000125337	0	0	1	0	0	1
## ENSG00000153303	0	0	0	0	0	0
## ENSG00000164488	0	0	0	0	0	0
## ENSG00000112562	0	0	0	0	0	0
## ENSG00000186340	1948	1933	2639	2328	2607	2567
## ENSG00000184465	67	90	102	137	167	163
## ENSG00000185127	841	1005	1331	1215	1404	1702
## ENSG00000130024	383	390	460	596	713	761
## ENSG00000184786	13	10	6	11	16	10
## ENSG00000130023	106	132	156	108	117	139
## ENSG00000198719	0	5	3	19	23	20
## ENSG00000112584	669	739	943	648	731	820
## ENSG00000008018	1634	1933	2326	1932	2175	2553
## ENSG00000112592	161	183	226	208	208	272
## ENSG00000071994	532	652	824	698	790	883
## ENSG00000177706	1250	1439	1806	1195	1322	1569
## ENSG00000197461	62	68	95	47	57	66
## ENSG00000188191	240	245	340	131	158	167
## ENSG00000164818	378	476	697	434	503	609
## ENSG00000164828	1512	1687	2200	1492	1615	1897
## ENSG00000239857	22	37	47	46	47	56
## ENSG00000105963	13	27	23	48	41	58
## ENSG00000240230	165	186	247	229	215	289
## ENSG00000073067	0	0	0	0	0	0
## ENSG00000146540	709	888	1057	808	824	988
## ENSG00000164849	0	4	5	2	4	4
## ENSG00000164850	66	80	98	48	53	59
## ENSG00000178381	107	133	177	149	197	247
## ENSG00000164853	0	0	0	0	0	0
## ENSG00000164877	285	329	468	430	509	594
## ENSG00000164880	2034	2262	3128	2660	2822	3427
## ENSG00000198517	541	592	738	1435	1530	1947
## ENSG00000164855	6	10	13	9	9	5
## ENSG00000157778	187	184	281	241	282	301

## ENSG00000225968	110	133	208	393	421	557
## ENSG00000002822	432	519	650	504	611	693
## ENSG00000122687	337	377	488	386	423	497
## ENSG00000106268	163	191	247	94	128	125
## ENSG00000106266	767	899	1122	1086	1083	1351
## ENSG00000106263	3237	3792	4900	3368	3835	4405
## ENSG00000136213	431	447	608	594	600	742
## ENSG00000275572	0	0	0	0	0	0
## ENSG00000106003	30	37	43	24	28	30
## ENSG00000106009	390	419	516	596	669	781
## ENSG00000106012	337	406	540	360	406	443
## ENSG00000136295	5626	6120	8121	11511	11898	14919
## ENSG00000174945	59	65	98	51	39	54
## ENSG00000146535	2240	2654	3307	1476	1617	1769
## ENSG00000198286	18	19	16	11	5	8
## ENSG00000146555	74	81	124	58	54	93
## ENSG00000164916	1227	1475	1727	1640	1707	1994
## ENSG00000242802	569	665	855	1067	1089	1313
## ENSG00000157927	3	3	2	3	2	4
## ENSG00000218823	0	0	0	0	0	0
## ENSG00000136297	0	0	0	0	0	0
## ENSG00000272968	0	0	0	0	0	0
## ENSG00000146587	213	228	278	380	431	519
## ENSG00000157954	1116	1221	1538	1824	1944	2330
## ENSG00000164638	201	235	314	357	396	492
## ENSG00000182095	2053	2275	3071	2199	2337	2664
## ENSG00000155034	343	407	480	390	362	450
## ENSG00000075624	92911	105954	139796	56626	68938	72818
## ENSG00000075618	6635	7954	10208	6624	7350	8531
## ENSG00000011275	1109	1337	1631	1033	1341	1492
## ENSG00000122543	0	0	0	0	0	0
## ENSG00000122674	62	71	89	95	97	117
## ENSG00000155026	0	1	0	0	1	0
## ENSG00000122512	125	142	174	96	103	133
## ENSG00000106305	229	277	326	207	241	285
## ENSG00000086232	1704	1951	2484	1239	1521	1593
## ENSG00000157999	8	4	9	2	12	10
## ENSG00000106346	198	244	278	253	295	332
## ENSG00000008256	576	639	812	568	701	791
## ENSG00000178397	229	266	349	238	256	294
## ENSG00000136238	3955	4640	5801	3999	4451	5323
## ENSG00000164535	385	430	560	596	607	783
## ENSG00000136240	6888	7877	9965	8069	9444	10380
## ENSG00000215045	0	0	0	0	0	0
## ENSG00000136247	231	221	293	317	312	431
## ENSG00000146576	231	255	326	345	396	493
## ENSG00000236609	143	177	215	173	189	253
## ENSG00000205903	413	463	598	557	638	716
## ENSG00000164631	318	305	443	477	544	692
## ENSG00000169402	0	0	0	0	0	0
## ENSG00000146574	150	178	227	193	236	270
## ENSG00000106392	417	492	586	384	426	448
## ENSG00000215018	3	1	1	1	4	2
## ENSG00000164654	220	285	316	155	202	250

## ENSG00000106399	97	128	137	58	70	75
## ENSG00000106415	189	217	242	362	384	436
## ENSG00000003147	1	0	1	0	0	0
## ENSG00000122584	0	0	0	0	0	0
## ENSG00000189043	1391	1666	1980	1239	1503	1552
## ENSG00000106443	267	297	395	506	551	666
## ENSG00000005108	2	1	6	85	69	123
## ENSG00000106460	834	913	1131	1438	1673	2086
## ENSG00000146530	0	0	1	1	0	1
## ENSG00000006747	0	0	1	0	3	1
## ENSG00000122644	159	220	228	67	76	92
## ENSG00000006468	413	528	570	1574	1693	2008
## ENSG00000136267	0	0	0	2	0	2
## ENSG00000187546	0	0	0	0	0	1
## ENSG00000106511	0	0	0	0	1	0
## ENSG00000214960	34	33	54	46	53	55
## ENSG00000171243	0	1	0	0	0	0
## ENSG00000205858	0	0	0	0	0	0
## ENSG00000106524	301	343	431	235	361	336
## ENSG00000136261	794	968	1242	967	1019	1279
## ENSG00000106537	231	297	331	530	561	706
## ENSG00000280130	0	0	0	0	0	0
## ENSG00000106541	0	0	0	0	0	0
## ENSG00000173467	0	0	0	0	0	0
## ENSG00000106546	592	672	778	2187	2300	3271
## ENSG00000071189	516	570	744	766	855	1019
## ENSG00000229937	0	0	0	0	0	1
## ENSG00000048052	191	187	262	69	82	109
## ENSG00000122691	155	215	273	258	331	354
## ENSG00000146618	0	0	0	0	0	0
## ENSG00000105849	318	360	490	313	384	387
## ENSG00000173452	0	0	0	0	0	0
## ENSG00000183742	0	1	1	0	0	0
## ENSG00000105855	208	188	209	86	137	115
## ENSG00000004846	0	0	0	0	0	0
## ENSG00000164651	0	0	0	0	0	0
## ENSG00000105866	61	60	84	70	67	83
## ENSG00000105877	3	6	8	2	6	3
## ENSG00000164649	179	199	259	92	117	116
## ENSG00000136237	4	1	0	2	0	4
## ENSG00000105889	76	70	82	26	30	37
## ENSG00000136244	77	94	113	427	457	575
## ENSG00000281889	0	0	0	1	0	0
## ENSG00000196683	872	997	1108	1094	1217	1265
## ENSG00000122591	1703	2014	2453	1407	1800	1906
## ENSG00000122550	462	524	635	1020	1149	1397
## ENSG00000136243	153	219	288	204	238	286
## ENSG00000136235	20	24	39	33	26	41
## ENSG00000156928	277	295	404	428	430	549
## ENSG00000136231	1621	1835	2359	2120	2267	2700
## ENSG00000164548	795	943	1080	535	629	747
## ENSG00000169193	54	66	72	113	125	139
## ENSG00000279448	0	0	0	1	0	1
## ENSG00000188732	8	8	10	9	9	11

## ENSG00000196335	0	0	0	1	0	0
## ENSG00000122585	0	0	0	0	0	0
## ENSG00000105926	208	282	366	159	218	240
## ENSG00000105928	660	719	906	537	640	697
## ENSG00000070882	788	946	1208	1037	1297	1295
## ENSG00000172115	1704	2166	2630	1484	1737	1970
## ENSG00000153790	18	40	38	17	29	35
## ENSG00000105954	0	0	0	0	0	0
## ENSG00000050344	788	909	1157	424	540	541
## ENSG00000122566	7979	9241	11265	7250	8380	9650
## ENSG00000122565	1822	2170	2560	1948	2132	2565
## ENSG00000086300	0	0	0	0	0	0
## ENSG00000005020	471	570	751	861	964	1127
## ENSG00000105991	17	20	24	6	8	10
## ENSG00000105996	26	31	30	14	12	10
## ENSG00000105997	61	108	127	59	82	97
## ENSG00000197576	17	19	18	3	3	7
## ENSG00000106004	189	206	270	30	37	47
## ENSG00000106006	5	5	6	0	5	1
## ENSG00000122592	8	9	8	5	7	13
## ENSG00000078399	1	6	7	0	3	1
## ENSG00000257184	0	0	0	0	0	0
## ENSG00000253293	2	0	3	3	4	3
## ENSG00000005073	0	0	0	1	3	2
## ENSG00000106031	0	0	1	0	0	1
## ENSG00000106038	0	0	0	0	0	0
## ENSG00000106049	400	451	574	489	560	632
## ENSG00000106052	1669	1832	2244	2493	2922	3300
## ENSG00000153814	294	351	390	133	180	160
## ENSG00000146592	134	191	241	68	84	93
## ENSG00000255690	2	0	2	1	5	3
## ENSG00000106066	0	0	0	0	0	0
## ENSG00000106069	0	0	0	0	0	1
## ENSG00000176532	0	0	0	0	0	0
## ENSG00000122574	0	0	0	0	1	0
## ENSG00000136193	3696	4418	5369	2910	3313	3792
## ENSG00000106080	1438	1768	2011	1527	1863	1857
## ENSG00000106086	273	297	363	435	542	641
## ENSG00000180354	160	191	195	280	385	457
## ENSG00000180233	19	24	20	13	15	20
## ENSG00000281593	0	0	0	0	0	0
## ENSG00000106100	45	43	57	25	17	24
## ENSG00000006625	149	165	208	141	144	190
## ENSG00000281039	0	0	0	0	0	0
## ENSG00000106105	5683	6343	7902	3416	4129	4200
## ENSG00000106113	0	3	2	0	3	1
## ENSG00000241644	21	25	31	15	20	18
## ENSG00000254959	0	0	0	0	0	0
## ENSG00000106125	2	10	8	9	12	17
## ENSG00000250424	0	0	0	0	0	0
## ENSG00000240583	5	12	13	1	4	6
## ENSG00000106128	0	0	0	0	0	0
## ENSG00000078549	0	0	0	0	0	0
## ENSG00000164600	0	0	0	0	0	0



## ENSG00000180347	0	0	0	0	0	0
## ENSG00000106341	0	0	0	0	0	0
## ENSG00000154678	544	646	795	542	717	838
## ENSG00000106355	223	256	294	208	247	265
## ENSG00000105778	714	780	938	885	993	1202
## ENSG00000170852	427	498	577	719	789	943
## ENSG00000122642	2454	2872	3681	3236	3842	4392
## ENSG00000122643	183	218	282	335	386	464
## ENSG00000164610	110	151	149	161	151	197
## ENSG00000122507	253	252	316	424	427	521
## ENSG00000164619	342	343	495	94	129	105
## ENSG00000187258	0	0	0	0	0	0
## ENSG00000173852	634	715	888	824	1030	1169
## ENSG00000164532	1	2	2	3	3	6
## ENSG00000122557	282	321	402	454	522	623
## ENSG00000122545	2633	3320	3991	3216	3691	4096
## ENSG00000122547	135	159	197	74	83	85
## ENSG00000164542	13	3	7	1	7	6
## ENSG00000011426	2080	2709	3514	242	421	380
## ENSG00000136250	0	0	0	0	0	0
## ENSG00000155849	1	0	0	2	2	1
## ENSG00000187037	0	0	0	0	0	0
## ENSG00000086289	4	4	7	5	5	0
## ENSG00000086288	0	0	0	0	0	0
## ENSG00000106483	0	0	0	0	0	0
## ENSG00000010270	648	799	901	1108	1253	1439
## ENSG00000078053	106	117	145	32	31	38
## ENSG00000006715	901	966	1245	1578	1769	2070
## ENSG00000106536	0	0	0	0	0	0
## ENSG00000241127	121	143	197	130	142	168
## ENSG00000006451	1090	1259	1504	1523	1687	2144
## ENSG00000065883	849	920	1095	952	1012	1206
## ENSG00000168303	203	243	296	348	360	424
## ENSG00000175600	74	88	98	135	139	153
## ENSG00000122641	3618	4339	5395	11409	12149	15862
## ENSG00000106571	258	299	381	301	304	379
## ENSG00000136197	5	10	5	8	8	9
## ENSG00000256646	0	0	0	0	0	0
## ENSG00000106588	34	56	58	55	68	62
## ENSG00000106591	354	429	528	431	524	582
## ENSG00000002746	16	23	33	9	26	24
## ENSG00000164543	1427	1786	2219	2323	2653	3256
## ENSG00000106603	411	485	588	323	379	399
## ENSG00000106605	316	389	462	223	274	267
## ENSG00000270617	0	0	0	0	0	0
## ENSG00000062582	27	23	36	12	22	21
## ENSG00000106608	443	498	693	520	579	690
## ENSG00000078967	95	116	143	143	162	161
## ENSG00000136206	2	4	0	1	1	3
## ENSG00000136279	1504	1702	2366	869	916	1043
## ENSG00000164708	0	0	0	0	0	0
## ENSG00000122678	73	84	98	79	89	123
## ENSG00000106624	228	213	309	86	114	123
## ENSG00000106628	1016	1105	1418	719	825	936

## ENSG00000106631	0	0	1	0	0	0
## ENSG00000106633	3	7	1	0	0	2
## ENSG00000106636	2908	3498	4246	3507	4061	4474
## ENSG00000058404	5	8	7	6	4	7
## ENSG00000015676	1109	1226	1591	1225	1363	1670
## ENSG00000015520	0	1	1	7	7	8
## ENSG00000136271	685	754	984	414	486	548
## ENSG00000158604	870	1029	1326	1529	1556	1944
## ENSG00000105953	1408	1598	2170	1014	1174	1375
## ENSG00000122515	884	938	1276	907	1004	1217
## ENSG00000196262	8382	9734	12086	8675	9731	11157
## ENSG00000105968	1067	1331	1652	1058	1242	1432
## ENSG00000146676	931	1245	1355	2119	2397	2900
## ENSG00000136286	0	0	1	1	0	0
## ENSG00000136280	689	884	1093	1021	1018	1229
## ENSG00000136274	207	193	255	114	140	151
## ENSG00000136270	620	678	948	742	793	1005
## ENSG00000122679	0	0	0	0	0	0
## ENSG00000164742	6	7	10	13	15	16
## ENSG00000146678	1	0	0	3	5	2
## ENSG00000146674	4000	4759	6303	999	1405	1225
## ENSG00000136205	4152	4542	5580	2372	2862	2836
## ENSG00000136273	199	232	303	193	188	238
## ENSG00000158683	20	12	12	3	3	3
## ENSG00000164744	0	0	0	0	0	0
## ENSG00000164746	0	0	0	0	1	0
## ENSG00000183696	168	223	269	353	375	486
## ENSG00000179869	6	4	7	8	9	8
## ENSG00000188730	0	0	0	0	0	0
## ENSG00000042813	0	0	0	0	0	0
## ENSG00000164500	0	0	0	0	0	0
## ENSG00000185811	1	0	1	0	1	0
## ENSG00000132436	164	202	255	88	111	123
## ENSG00000132437	0	0	0	0	0	0
## ENSG00000106070	455	452	581	602	602	814
## ENSG00000106078	0	0	0	0	0	0
## ENSG00000221900	0	0	0	0	0	0
## ENSG00000170419	0	0	0	0	0	0
## ENSG00000132432	953	1071	1372	1123	1281	1415
## ENSG00000146648	3388	4167	4806	7103	7732	9473
## ENSG00000132434	250	284	348	249	266	387
## ENSG00000154978	969	1160	1491	1247	1477	1658
## ENSG00000154997	0	0	0	0	0	0
## ENSG00000249773	0	0	0	0	1	1
## ENSG00000178665	10	6	14	31	27	51
## ENSG00000146729	515	607	730	308	378	379
## ENSG00000239789	40	67	91	27	31	30
## ENSG00000146733	383	435	569	133	178	148
## ENSG00000146731	3287	3886	4850	2393	2674	3055
## ENSG00000129103	1166	1231	1662	424	468	573
## ENSG00000164776	7	2	2	2	4	7
## ENSG00000106153	2243	2595	3260	2311	2604	3013
## ENSG00000185290	0	0	0	0	0	0
## ENSG00000268187	0	0	0	0	0	0

## ENSG00000185177	0	0	0	0	0	0
## ENSG00000182111	0	0	0	0	0	0
## ENSG00000275217	0	0	0	0	0	0
## ENSG00000214652	0	0	0	0	0	0
## ENSG00000223614	0	0	0	0	0	0
## ENSG00000197123	0	0	0	0	0	0
## ENSG00000234444	96	102	129	192	217	270
## ENSG00000173041	54	49	76	77	91	125
## ENSG00000196247	77	83	92	85	102	117
## ENSG00000197008	34	35	54	40	41	64
## ENSG00000198039	23	19	33	24	25	44
## ENSG00000152926	88	83	111	159	142	172
## ENSG00000213462	77	66	103	136	136	171
## ENSG00000280410	0	0	0	0	0	0
## ENSG00000146757	81	77	128	151	171	212
## ENSG00000280427	0	0	0	0	0	0
## ENSG00000196715	1017	1282	1542	808	939	1032
## ENSG00000169919	245	296	366	289	345	396
## ENSG00000126522	274	330	382	251	276	342
## ENSG00000249319	0	1	0	0	1	1
## ENSG00000241258	465	555	661	437	488	549
## ENSG00000169902	658	748	947	874	986	1183
## ENSG00000243335	240	301	322	325	327	355
## ENSG00000154710	37	42	68	50	54	78
## ENSG00000106609	1514	1808	2334	1751	2130	2394
## ENSG00000126524	1301	1530	1845	1209	1382	1533
## ENSG00000198874	252	265	367	313	331	336
## ENSG00000158321	90	116	152	101	105	155
## ENSG00000185274	0	0	0	0	0	0
## ENSG00000183166	0	0	0	0	0	0
## ENSG00000277149	4	10	24	17	18	10
## ENSG00000196313	671	742	978	539	610	661
## ENSG00000155428	0	0	0	1	0	1
## ENSG00000130305	165	206	223	212	238	273
## ENSG00000146755	0	0	0	0	0	0
## ENSG00000077800	0	1	0	0	1	0
## ENSG00000188763	37	33	43	38	43	53
## ENSG00000009954	2050	2305	2771	1326	1487	1675
## ENSG00000106635	498	548	714	625	705	784
## ENSG00000106638	684	740	1049	824	857	945
## ENSG00000009950	0	0	0	0	0	0
## ENSG00000176428	48	63	75	63	90	73
## ENSG00000176410	163	168	245	184	177	209
## ENSG00000071462	563	649	769	786	959	1105
## ENSG00000106089	94	162	185	156	155	202
## ENSG00000106077	84	140	141	100	89	109
## ENSG00000165215	1	0	0	0	0	3
## ENSG00000189143	23	21	33	16	9	6
## ENSG00000165171	20	24	33	8	4	15
## ENSG00000175877	0	0	0	0	0	0
## ENSG00000049540	1053	1285	1716	1103	1479	1455
## ENSG00000106683	1367	1533	2053	1781	1800	2199
## ENSG00000106682	4440	5255	6505	5180	5935	6818
## ENSG00000086730	10	13	7	23	20	20

## ENSG00000049541	191	237	291	155	184	203
## ENSG00000106665	1966	2309	2833	3863	4172	5009
## ENSG00000006704	270	322	426	362	411	502
## ENSG00000263001	736	802	1058	287	376	436
## ENSG00000158517	1	0	0	0	0	0
## ENSG00000196275	14	13	24	19	18	16
## ENSG00000274070	65	59	70	46	59	80
## ENSG00000274523	707	771	1035	840	863	1073
## ENSG00000174428	32	42	67	54	73	91
## ENSG00000178809	0	2	2	3	0	5
## ENSG00000272391	617	688	910	594	634	701
## ENSG00000170092	7	7	7	20	11	20
## ENSG00000127946	885	1098	1271	1400	1470	1884
## ENSG00000006606	7	0	2	15	7	12
## ENSG00000106178	0	0	0	0	2	0
## ENSG00000005486	485	542	691	1456	1504	1950
## ENSG00000127948	601	637	918	1051	1030	1352
## ENSG00000189077	278	299	389	357	377	476
## ENSG00000127952	236	287	376	259	246	295
## ENSG00000146701	2478	2661	3576	2515	2903	3225
## ENSG00000177679	48	79	84	117	142	187
## ENSG00000106211	6803	7426	9707	4620	5501	5870
## ENSG00000170027	5342	6156	7680	7889	8885	10563
## ENSG00000146700	6	2	5	3	6	6
## ENSG00000188372	9	4	9	0	2	2
## ENSG00000091073	121	135	177	170	192	256
## ENSG00000243566	0	0	0	0	1	0
## ENSG00000185040	0	1	0	0	0	0
## ENSG00000146707	28	26	50	50	51	66
## ENSG00000135205	14	9	23	37	50	42
## ENSG00000127951	182	195	251	528	560	677
## ENSG00000186088	54	51	65	36	25	44
## ENSG00000127947	1099	1280	1648	2202	2499	2963
## ENSG00000187257	241	305	337	314	330	378
## ENSG00000135211	143	130	167	200	200	241
## ENSG00000006576	1322	1619	1941	1534	1914	2060
## ENSG00000187391	162	240	251	149	167	190
## ENSG00000127955	485	539	721	1710	1951	2367
## ENSG00000135218	12	24	17	51	35	68
## ENSG00000214415	0	0	0	0	0	0
## ENSG00000075223	1237	1327	1742	587	719	830
## ENSG00000019991	1793	2113	2519	2441	2625	3591
## ENSG00000153956	1292	1511	1938	1408	1689	1932
## ENSG00000186472	1	2	4	2	3	3
## ENSG00000170381	29	42	43	39	32	25
## ENSG00000075213	2842	3226	3982	7103	7814	9957
## ENSG00000153993	107	134	172	84	101	158
## ENSG00000198822	0	0	0	0	0	0
## ENSG00000164659	11	7	17	17	22	20
## ENSG00000135164	474	516	709	621	706	791
## ENSG00000135185	164	213	249	256	290	365
## ENSG00000005469	391	421	514	366	445	432
## ENSG00000005471	0	0	1	0	1	2
## ENSG00000085563	17	23	31	52	60	69

## ENSG00000105784	5	6	11	3	4	4
## ENSG00000075303	95	88	157	60	116	108
## ENSG00000006634	194	246	328	106	134	152
## ENSG00000008277	4	3	9	20	14	9
## ENSG00000075142	641	802	994	700	750	903
## ENSG00000127954	0	0	0	0	0	0
## ENSG00000182348	0	0	0	0	0	0
## ENSG00000164645	0	0	0	0	0	0
## ENSG00000164647	43	57	72	29	29	35
## ENSG00000157214	40	50	53	60	49	73
## ENSG00000105792	7	11	16	18	30	33
## ENSG00000105793	227	268	326	242	258	292
## ENSG00000157224	440	478	629	755	914	1083
## ENSG00000058091	572	745	900	804	862	1123
## ENSG00000157240	505	596	739	931	991	1188
## ENSG00000127989	103	131	142	112	128	168
## ENSG00000127914	1018	936	1292	1617	1971	1986
## ENSG00000001630	83	73	91	83	70	108
## ENSG00000240720	0	1	0	0	0	1
## ENSG00000001631	305	333	408	314	331	423
## ENSG00000001629	1090	1290	1620	1306	1532	1842
## ENSG00000157259	372	419	527	478	537	615
## ENSG00000242950	1	3	0	1	1	1
## ENSG00000127980	141	184	213	191	257	292
## ENSG00000127993	68	93	120	120	138	190
## ENSG00000234545	164	204	230	182	194	252
## ENSG00000105810	3014	3870	4330	4532	5592	6339
## ENSG00000205413	222	271	331	302	346	440
## ENSG00000177409	219	240	333	284	357	367
## ENSG00000188175	0	0	0	1	0	1
## ENSG00000004766	258	310	332	215	231	220
## ENSG00000004948	0	0	0	0	0	0
## ENSG00000127928	0	0	0	0	0	0
## ENSG00000105825	2288	2904	3283	13363	11619	20085
## ENSG00000127920	730	831	974	3574	3632	5152
## ENSG00000105829	305	312	443	655	729	903
## ENSG00000164692	181682	192833	252470	234854	276467	285867
## ENSG00000127995	134	144	220	109	126	148
## ENSG00000127990	291	338	450	187	271	266
## ENSG00000242265	994	1132	1323	1002	983	1361
## ENSG00000158528	0	1	0	0	1	0
## ENSG00000005421	0	0	0	0	0	0
## ENSG00000105852	0	0	0	0	0	0
## ENSG00000105854	760	882	1047	676	856	986
## ENSG00000005981	0	0	0	0	0	0
## ENSG00000004799	1	1	0	179	148	307
## ENSG00000158560	2	1	3	17	17	26
## ENSG00000004864	263	343	440	431	474	587
## ENSG00000127922	662	754	930	865	978	1160
## ENSG00000006377	0	0	0	0	0	0
## ENSG00000105880	0	0	0	0	0	0
## ENSG00000196636	66	90	67	58	82	83
## ENSG00000006128	0	0	0	0	0	0
## ENSG00000070669	1336	1404	1712	313	443	383

## ENSG00000135175	0	0	0	0	0	0
## ENSG00000164715	363	381	471	467	489	618
## ENSG00000180535	1	4	5	1	3	6
## ENSG00000205356	442	512	681	705	725	868
## ENSG00000164713	762	925	1111	1473	1399	1826
## ENSG00000006453	133	154	169	98	119	134
## ENSG00000106236	1	0	2	1	0	0
## ENSG00000166448	148	160	224	86	102	93
## ENSG00000196367	1658	1942	2307	1262	1317	1616
## ENSG00000198742	798	896	1077	1647	1767	2250
## ENSG00000185467	1	0	1	0	0	0
## ENSG00000241685	2650	2914	3743	2233	2548	2849
## ENSG00000130429	1465	1604	2117	1583	1718	2074
## ENSG00000106244	1781	1997	2601	1643	1831	2140
## ENSG00000106245	442	518	651	490	542	628
## ENSG00000106246	24	43	35	44	43	60
## ENSG00000248919	0	0	0	0	0	0
## ENSG00000160917	230	222	327	421	466	516
## ENSG00000241468	468	500	641	449	516	590
## ENSG00000198556	71	67	89	68	66	74
## ENSG00000160908	140	173	200	279	261	317
## ENSG00000196652	370	378	477	448	430	559
## ENSG00000221909	98	80	106	136	128	165
## ENSG00000197343	675	828	913	756	911	1030
## ENSG00000272647	0	0	0	0	0	0
## ENSG00000197037	143	159	204	217	235	309
## ENSG00000106258	0	4	4	8	8	9
## ENSG00000282301	0	0	0	0	0	0
## ENSG00000160870	0	0	0	2	2	0
## ENSG00000160868	0	0	0	0	1	0
## ENSG00000021461	0	0	0	0	1	0
## ENSG00000244623	0	0	1	1	0	0
## ENSG00000146833	375	428	505	336	325	412
## ENSG00000176402	0	0	0	1	4	1
## ENSG00000160862	0	0	0	0	0	0
## ENSG00000106261	1457	1654	1878	1724	1966	2160
## ENSG00000166529	47	54	65	66	65	75
## ENSG00000166526	316	332	414	435	501	571
## ENSG00000168090	1751	2065	2518	1318	1533	1653
## ENSG00000166508	1151	1321	1759	701	743	985
## ENSG00000221838	218	280	288	314	317	402
## ENSG00000106290	507	564	736	586	617	757
## ENSG00000166997	188	236	255	340	407	442
## ENSG00000214309	14	23	35	47	46	59
## ENSG00000188186	337	410	477	479	464	566
## ENSG00000146826	245	302	357	426	423	590
## ENSG00000197093	92	104	127	127	128	144
## ENSG00000213420	35	35	60	74	73	141
## ENSG00000066923	21	24	20	22	26	36
## ENSG00000239521	77	92	129	78	111	129
## ENSG00000213413	3	2	2	2	1	4
## ENSG00000214300	49	47	95	53	56	78
## ENSG00000272752	1	0	0	0	1	1
## ENSG00000121716	3	6	12	4	8	7

## ENSG00000085514	0	0	1	1	0	0
## ENSG00000078487	10	15	18	14	18	20
## ENSG00000146834	438	518	665	740	731	969
## ENSG00000160813	50	52	69	69	78	74
## ENSG00000185955	2	1	3	5	3	7
## ENSG00000166925	766	834	1107	1899	1935	2621
## ENSG00000166924	6	8	13	12	9	4
## ENSG00000106351	151	183	219	105	119	145
## ENSG00000205307	0	0	0	0	0	0
## ENSG00000077454	181	199	252	245	284	353
## ENSG00000106336	3	2	2	10	3	5
## ENSG00000106333	2308	2571	3337	2325	2778	3124
## ENSG00000106330	144	173	227	255	291	363
## ENSG00000106327	2	1	2	3	7	2
## ENSG00000077080	1	0	0	0	0	0
## ENSG00000172354	2601	3097	3992	3284	3484	4309
## ENSG00000146830	451	461	609	1058	1073	1323
## ENSG00000172336	249	292	368	257	279	340
## ENSG00000130427	0	0	0	0	0	0
## ENSG00000146839	0	1	1	0	0	0
## ENSG00000196411	931	995	1377	1340	1464	1762
## ENSG00000146828	427	513	683	578	650	804
## ENSG00000087077	1041	1240	1644	960	988	1195
## ENSG00000087087	1226	1435	1978	1279	1310	1707
## ENSG00000176125	17	15	16	15	21	20
## ENSG00000087085	4	8	9	18	20	19
## ENSG00000169894	0	0	0	0	0	0
## ENSG00000205277	11	11	15	22	21	30
## ENSG00000169876	0	0	0	0	0	0
## ENSG00000169871	946	959	1200	1527	1630	1917
## ENSG00000106366	54965	60806	80573	17869	21091	22223
## ENSG00000106367	1329	1468	1805	1643	1771	2116
## ENSG00000128564	27	20	45	97	64	167
## ENSG00000167011	1	1	1	1	1	0
## ENSG00000106384	0	0	0	0	0	0
## ENSG00000106397	3067	3265	4498	4608	4990	5862
## ENSG00000106400	730	890	1036	984	1076	1240
## ENSG00000106404	39	30	52	53	43	65
## ENSG00000214253	747	852	1090	908	976	1166
## ENSG00000128581	178	206	292	250	209	292
## ENSG00000160963	1	0	0	3	2	4
## ENSG00000106436	0	0	0	0	0	1
## ENSG00000279538	0	0	0	0	0	0
## ENSG00000257923	1299	1555	1911	2168	2294	2554
## ENSG00000160999	18	29	41	50	47	61
## ENSG00000260097	5	2	12	10	6	5
## ENSG00000128563	229	257	356	283	317	416
## ENSG00000160991	1307	1591	1914	2407	2485	3169
## ENSG00000160993	128	106	176	146	168	197
## ENSG00000161036	449	521	674	651	692	937
## ENSG00000005075	382	400	544	490	496	605
## ENSG00000170667	1	2	2	0	0	0
## ENSG00000168255	33	32	41	36	40	34
## ENSG00000270249	0	0	0	0	0	0

## ENSG00000205238	2	4	4	4	8	5
## ENSG00000105808	3	9	16	12	9	11
## ENSG00000205236	0	0	0	0	0	0
## ENSG00000267368	0	0	0	0	0	0
## ENSG00000267645	0	0	0	0	0	0
## ENSG00000173678	0	0	0	0	3	0
## ENSG00000228049	0	2	3	4	4	5
## ENSG00000279168	0	0	0	0	0	0
## ENSG00000222011	23	36	47	20	30	37
## ENSG00000161040	4	4	20	8	7	3
## ENSG00000128606	4665	5607	6775	4606	5768	5870
## ENSG00000170632	357	367	470	211	255	313
## ENSG00000161048	120	123	148	95	93	119
## ENSG00000105819	556	622	767	671	721	905
## ENSG00000105821	317	424	543	414	434	534
## ENSG00000161057	1441	1772	2204	1413	1686	1977
## ENSG00000170615	0	1	2	1	0	1
## ENSG00000189056	2425	2732	3157	310	417	345
## ENSG00000164815	193	232	307	119	141	153
## ENSG00000187416	0	1	0	0	0	0
## ENSG00000005483	854	873	1108	1285	1497	1807
## ENSG00000135250	697	880	1112	598	727	759
## ENSG00000091127	220	282	288	199	247	301
## ENSG00000135249	348	410	513	314	379	501
## ENSG00000185055	6	4	5	6	14	6
## ENSG00000146776	95	93	125	137	159	155
## ENSG00000128536	18	25	26	44	21	42
## ENSG00000008282	1086	1322	1603	1481	1558	2040
## ENSG00000105835	578	652	760	2217	2139	3110
## ENSG00000253276	808	1007	1211	823	947	1114
## ENSG00000105851	2	2	1	1	2	3
## ENSG00000005249	191	216	273	548	569	812
## ENSG00000105856	515	534	687	1017	1147	1313
## ENSG00000164597	698	852	1019	272	370	354
## ENSG00000172209	1	0	0	0	0	0
## ENSG00000105865	47	73	83	49	67	66
## ENSG00000075790	667	834	1012	844	968	1158
## ENSG00000091137	4	8	6	7	1	2
## ENSG00000105879	340	362	512	492	504	641
## ENSG00000091138	0	0	0	0	0	0
## ENSG00000091140	1165	1347	1724	1204	1408	1587
## ENSG00000091136	7497	8003	10296	17015	20149	22272
## ENSG00000091128	4	7	8	7	7	25
## ENSG00000091129	17	17	13	12	15	20
## ENSG00000135241	394	418	562	633	703	840
## ENSG00000177683	270	296	371	273	271	341
## ENSG00000128590	385	447	538	1050	1082	1413
## ENSG00000184903	27	34	48	30	48	52
## ENSG00000173114	559	629	829	1017	1328	1339
## ENSG00000128512	364	446	472	1222	1272	1622
## ENSG00000198839	172	180	243	277	375	409
## ENSG00000006652	584	641	820	652	658	879
## ENSG00000181016	4	5	3	11	9	14
## ENSG00000146802	289	326	448	447	549	632



## ENSG00000164603	251	280	340	365	396	470
## ENSG00000164604	33	41	44	35	42	38
## ENSG00000154415	0	0	0	0	0	0
## ENSG00000128573	48	42	58	40	52	50
## ENSG00000135272	836	1084	1176	1708	1903	2431
## ENSG00000105967	4	4	3	11	8	5
## ENSG00000135269	567	689	855	902	1171	1261
## ENSG00000281656	0	0	0	1	0	0
## ENSG00000105971	2923	3578	4297	3158	3823	3911
## ENSG00000105974	14719	17078	21654	12981	16247	16250
## ENSG00000105976	1103	1321	1635	468	562	676
## ENSG00000198898	1796	2234	2659	1829	2137	2418
## ENSG00000004866	269	304	404	262	359	372
## ENSG00000105989	31	24	46	6	12	8
## ENSG00000154438	0	0	0	0	0	0
## ENSG00000001626	6	9	7	12	7	11
## ENSG00000077063	124	162	179	249	235	284
## ENSG00000128534	181	232	300	273	330	366
## ENSG00000106013	2	2	0	2	1	0
## ENSG00000184408	7	5	5	152	180	199
## ENSG00000106025	43	38	56	129	153	226
## ENSG00000071243	118	116	181	137	143	181
## ENSG00000106034	1473	1606	1990	867	1057	1163
## ENSG00000002745	79	74	132	612	538	781
## ENSG00000196937	954	1124	1356	1178	1419	1625
## ENSG00000106278	1	1	0	0	0	0
## ENSG00000008311	123	142	174	167	214	228
## ENSG00000128610	0	0	0	0	0	0
## ENSG00000081803	7	12	13	14	15	14
## ENSG00000188050	0	0	0	0	0	0
## ENSG00000235631	0	0	0	0	0	0
## ENSG00000128519	0	0	0	0	0	0
## ENSG00000081800	0	0	0	0	0	0
## ENSG00000164675	3	2	5	12	7	8
## ENSG00000128609	414	472	520	661	758	888
## ENSG00000146809	0	0	0	0	0	0
## ENSG00000170807	0	0	0	0	0	0
## ENSG00000106299	618	715	996	1206	1298	1601
## ENSG00000106302	0	0	0	0	0	0
## ENSG00000106304	0	0	0	0	0	0
## ENSG00000234224	0	0	0	0	0	0
## ENSG00000170775	393	481	578	879	978	1228
## ENSG00000275356	0	0	0	0	0	0
## ENSG00000128513	159	190	244	73	90	100
## ENSG00000179603	0	0	0	3	0	0
## ENSG00000048405	268	287	341	346	405	426
## ENSG00000179562	461	457	618	532	546	613
## ENSG00000004059	718	834	1090	1068	1246	1434
## ENSG00000106328	1	0	0	0	0	0
## ENSG00000106331	0	0	0	0	0	0
## ENSG00000197157	5726	6580	8282	6245	7281	8302
## ENSG00000128594	11	19	30	18	21	23
## ENSG00000174697	0	0	0	0	0	0
## ENSG00000106344	407	431	536	453	503	609

## ENSG00000224940	0	0	1	0	1	0
## ENSG00000106348	1495	1743	2300	1147	1336	1532
## ENSG00000279916	0	0	0	0	0	0
## ENSG00000135245	99	91	110	113	106	130
## ENSG00000165055	317	348	460	262	264	303
## ENSG00000205085	15	11	23	17	29	23
## ENSG00000135248	3	2	0	1	0	1
## ENSG00000128595	21152	24118	30701	16177	18747	20515
## ENSG00000128617	52	70	95	57	77	91
## ENSG00000128596	160	160	205	234	219	296
## ENSG00000128591	26231	29576	41114	12516	14383	16095
## ENSG00000135253	0	1	3	1	4	5
## ENSG00000128524	744	839	1029	1442	1563	1936
## ENSG00000128604	1	0	2	1	0	3
## ENSG00000064419	1037	1343	1610	1206	1413	1577
## ENSG00000158457	1	1	2	1	4	0
## ENSG00000128602	519	582	766	938	976	1239
## ENSG00000158467	207	231	325	130	191	203
## ENSG00000128578	63	66	84	38	55	39
## ENSG00000240204	0	0	0	0	0	0
## ENSG00000106459	121	164	255	174	167	211
## ENSG00000186591	2062	2390	2809	3558	4233	4552
## ENSG00000091732	204	223	280	182	210	238
## ENSG00000128607	722	866	1049	1000	1165	1305
## ENSG00000146842	187	199	232	223	220	286
## ENSG00000165120	1	0	1	0	0	0
## ENSG00000158516	1	0	2	0	0	0
## ENSG00000128510	1525	1580	2143	467	606	530
## ENSG00000158525	2	3	1	0	1	1
## ENSG00000091704	0	0	0	0	0	0
## ENSG00000106477	212	270	348	198	215	291
## ENSG00000106484	2842	3261	4022	634	820	608
## ENSG00000158623	350	432	558	432	543	612
## ENSG00000213265	0	0	0	0	0	0
## ENSG00000266265	2	0	4	3	0	4
## ENSG00000128585	820	938	1068	1219	1404	1674
## ENSG00000128567	142	164	254	162	183	247
## ENSG00000221866	2	4	8	3	3	6
## ENSG00000106554	660	786	883	703	773	843
## ENSG00000131558	884	970	1217	774	838	1015
## ENSG00000155530	0	0	0	2	0	5
## ENSG00000205060	556	635	785	216	282	294
## ENSG00000085662	1772	2026	2475	2928	2659	4395
## ENSG00000198074	39	35	50	19	32	34
## ENSG00000227471	0	0	0	0	0	1
## ENSG00000172331	530	695	862	1405	1643	2093
## ENSG00000122786	17192	19499	24387	9447	12160	11813
## ENSG00000146856	4	12	11	9	6	9
## ENSG00000122783	165	176	232	200	192	220
## ENSG00000146859	76	101	115	120	129	178
## ENSG00000105875	124	139	179	131	140	150
## ENSG00000146857	0	0	0	0	0	0
## ENSG00000080802	355	412	474	512	507	566
## ENSG00000155561	1092	1256	1658	728	856	1065

## ENSG00000243317	1010	1155	1371	1194	1384	1568
## ENSG00000164707	11	2	1	7	9	9
## ENSG00000189320	49	59	64	22	9	15
## ENSG00000105887	4114	5076	6343	4254	4866	5593
## ENSG00000267697	0	0	0	0	0	0
## ENSG00000181072	3882	4400	5505	5356	6537	7318
## ENSG00000105894	1154	1330	1715	3183	3822	4115
## ENSG00000157680	349	342	445	2221	2371	2875
## ENSG00000279483	46	40	43	46	25	33
## ENSG00000182158	3168	3791	4548	3067	3342	3921
## ENSG00000122787	0	1	0	1	0	0
## ENSG00000122779	248	279	352	376	468	524
## ENSG00000157703	0	0	0	0	0	0
## ENSG00000105929	1	0	2	3	0	1
## ENSG00000214128	0	0	0	0	0	0
## ENSG00000122778	385	452	571	379	343	399
## ENSG00000146858	68	69	75	105	110	123
## ENSG00000105939	737	866	1092	608	684	800
## ENSG00000105948	87	126	125	61	77	100
## ENSG00000157741	187	184	231	296	292	387
## ENSG00000164898	3	6	10	8	11	12
## ENSG00000146963	272	282	349	387	444	507
## ENSG00000269955	0	0	0	0	0	0
## ENSG00000188883	0	0	1	0	2	1
## ENSG00000236279	0	2	1	1	2	2
## ENSG00000064393	3525	4252	4346	9322	9552	10884
## ENSG00000059377	227	203	300	977	991	1397
## ENSG00000059378	96	91	131	78	93	95
## ENSG00000006459	111	105	136	345	403	491
## ENSG00000157800	680	735	1052	719	927	961
## ENSG00000146955	0	0	0	0	0	0
## ENSG00000133606	1059	1121	1416	1544	1801	2020
## ENSG00000146966	283	358	384	327	371	447
## ENSG00000133597	137	144	164	63	59	67
## ENSG00000090266	436	485	616	453	544	568
## ENSG00000157764	374	386	451	400	535	528
## ENSG00000090263	191	221	255	203	221	254
## ENSG00000261115	41	45	49	29	51	39
## ENSG00000006530	262	353	443	273	328	354
## ENSG00000257093	142	183	195	119	187	172
## ENSG00000214102	1	0	0	0	0	0
## ENSG00000106028	655	799	950	716	763	901
## ENSG00000127362	1	0	0	0	0	1
## ENSG00000127364	1	0	0	3	2	0
## ENSG00000127366	1	4	2	4	3	0
## ENSG00000165076	0	0	0	0	0	0
## ENSG00000257335	2	1	0	0	0	0
## ENSG00000258083	0	0	0	0	0	0
## ENSG00000258227	0	0	0	0	0	0
## ENSG00000257138	0	0	0	0	0	0
## ENSG00000257743	0	0	0	0	0	0
## ENSG00000258223	0	0	0	0	0	0
## ENSG00000270672	1	4	0	2	1	0
## ENSG00000275896	0	0	0	0	0	0

## ENSG00000204983	0	0	0	0	0	0
## ENSG00000106123	7	4	4	9	13	16
## ENSG00000165125	0	0	0	0	0	0
## ENSG00000127412	0	0	0	0	0	0
## ENSG00000165131	0	0	0	0	0	0
## ENSG00000197993	0	1	0	0	0	0
## ENSG00000179468	0	0	0	0	0	0
## ENSG00000225781	0	0	0	0	0	0
## ENSG00000159763	0	0	0	0	0	0
## ENSG00000236398	0	0	0	0	0	0
## ENSG00000221937	0	0	0	0	0	0
## ENSG00000197448	581	656	783	658	726	918
## ENSG00000178826	0	2	0	2	0	3
## ENSG00000106144	425	505	647	516	544	679
## ENSG00000188037	0	0	0	0	0	0
## ENSG00000159784	211	205	280	148	184	211
## ENSG00000159840	7917	9271	12423	4415	5581	5945
## ENSG00000146904	7	3	9	8	2	5
## ENSG00000185899	0	0	0	0	0	0
## ENSG00000221855	0	0	0	0	0	0
## ENSG00000271079	0	0	0	0	0	0
## ENSG00000170379	18	37	49	16	22	22
## ENSG00000271321	0	0	0	0	0	0
## ENSG00000198420	799	894	1077	906	1109	1216
## ENSG00000221910	0	0	0	0	0	0
## ENSG00000279723	0	0	0	0	0	0
## ENSG00000221813	0	0	0	0	0	0
## ENSG00000221836	0	0	0	0	0	0
## ENSG00000221933	0	0	0	0	0	0
## ENSG00000221858	0	0	0	0	0	0
## ENSG00000221989	0	0	0	0	0	0
## ENSG00000221938	0	0	0	0	0	0
## ENSG00000225932	0	0	0	0	0	0
## ENSG00000213214	0	0	1	3	1	0
## ENSG00000212807	0	0	0	0	0	0
## ENSG00000243896	0	0	0	0	0	0
## ENSG00000244693	0	0	0	0	0	0
## ENSG00000221970	0	0	0	0	0	0
## ENSG00000050327	2	6	7	3	4	5
## ENSG00000106410	0	0	0	0	0	0
## ENSG00000196511	8	10	13	12	15	11
## ENSG00000174469	0	0	1	0	2	2
## ENSG00000170279	0	0	0	0	0	0
## ENSG00000055130	1081	1180	1490	1016	1207	1363
## ENSG00000106462	217	246	335	95	122	157
## ENSG00000155660	4147	4445	5726	6307	6594	7701
## ENSG00000197362	52	51	63	92	73	85
## ENSG00000204947	44	37	61	54	49	64
## ENSG00000197024	263	259	336	303	342	358
## ENSG00000170265	400	447	583	593	647	804
## ENSG00000170260	107	98	160	151	194	187
## ENSG00000204946	67	93	117	133	165	176
## ENSG00000196453	277	307	405	232	267	299
## ENSG00000181220	301	361	462	392	408	492

## ENSG00000133619	109	124	155	136	138	178
## ENSG00000181444	7	13	22	3	10	9
## ENSG00000197558	2	1	3	4	5	6
## ENSG00000106479	121	135	158	178	182	237
## ENSG00000171130	188	217	262	119	128	159
## ENSG00000106526	0	0	0	1	0	0
## ENSG00000127399	0	0	0	1	1	0
## ENSG00000188707	0	0	2	2	1	1
## ENSG00000106538	14	5	13	19	13	22
## ENSG00000214022	698	872	1124	1003	1116	1370
## ENSG00000196456	90	96	124	81	73	113
## ENSG00000171115	0	0	0	0	1	0
## ENSG00000179144	0	0	0	0	0	0
## ENSG00000133574	0	0	0	0	0	0
## ENSG00000133561	0	0	0	0	0	0
## ENSG00000106560	2	0	1	2	3	1
## ENSG00000281887	0	0	0	0	0	0
## ENSG00000213203	0	0	0	0	0	0
## ENSG00000196329	0	0	0	0	0	0
## ENSG00000106565	4	5	4	2	1	1
## ENSG00000002933	1	1	1	3	0	4
## ENSG00000002726	0	0	0	0	0	0
## ENSG00000055118	42	58	59	14	16	7
## ENSG00000164867	1	1	2	0	0	0
## ENSG00000181652	1	0	1	0	0	1
## ENSG00000197150	353	359	501	282	296	374
## ENSG00000213199	3	2	6	10	8	13
## ENSG00000164885	217	274	346	189	209	241
## ENSG00000164889	1904	2262	3022	3381	3670	4518
## ENSG00000164896	769	899	1172	816	901	1085
## ENSG00000164897	400	384	547	493	490	593
## ENSG00000133612	811	866	1115	1576	1648	1996
## ENSG00000164900	0	0	0	0	0	0
## ENSG00000146926	0	0	0	0	0	0
## ENSG00000278685	0	0	0	0	0	0
## ENSG00000033050	1357	1584	1989	1352	1461	1680
## ENSG00000033100	2998	3430	4451	6166	6502	8000
## ENSG00000082014	380	451	541	355	462	518
## ENSG00000013374	529	641	725	559	583	735
## ENSG00000187260	0	1	0	0	1	1
## ENSG00000127377	0	0	0	0	2	0
## ENSG00000106615	883	1091	1290	1090	1324	1532
## ENSG00000106617	361	426	489	202	299	323
## ENSG00000106648	0	0	0	0	0	0
## ENSG00000178234	379	489	539	603	645	828
## ENSG00000055609	820	891	887	761	688	720
## ENSG00000196584	55	72	109	14	22	25
## ENSG00000133627	46	52	85	44	41	39
## ENSG00000130226	0	0	0	0	0	0
## ENSG00000157212	109	170	194	149	193	235
## ENSG00000157219	0	0	0	0	0	0
## ENSG00000186480	436	563	690	3321	3300	4901
## ENSG00000204960	0	0	0	0	0	0
## ENSG00000164778	1	1	1	2	3	4

## ENSG00000146910	0	0	0	0	0	0
## ENSG00000184863	470	548	756	636	725	843
## ENSG00000164690	4	2	2	13	8	20
## ENSG00000105982	5	11	13	2	11	14
## ENSG00000105983	526	624	768	635	746	924
## ENSG00000146909	369	461	546	447	463	472
## ENSG00000130675	0	0	0	0	3	6
## ENSG00000009335	2260	2791	3429	1959	2126	2518
## ENSG00000105993	2227	2463	3031	2318	2603	3030
## ENSG00000155093	6	2	4	12	11	8
## ENSG00000146918	497	667	829	119	155	152
## ENSG00000117868	1304	1531	1871	927	1176	1223
## ENSG00000126870	213	240	295	253	283	376
## ENSG00000106018	0	0	0	0	0	0
## ENSG00000182378	256	318	417	234	244	335
## ENSG00000178605	466	531	740	544	606	748
## ENSG00000167393	124	140	165	150	136	160
## ENSG00000185960	0	0	0	0	0	1
## ENSG00000205755	0	0	0	0	0	0
## ENSG00000198223	0	0	0	1	0	0
## ENSG00000185291	13	9	11	30	23	26
## ENSG00000169100	5585	6189	8024	7290	7789	9380
## ENSG00000169093	315	356	489	410	482	491
## ENSG00000182162	0	0	0	0	0	0
## ENSG00000197976	417	462	583	521	588	714
## ENSG00000196433	1	0	0	0	0	0
## ENSG00000169084	267	356	417	514	635	688
## ENSG00000214717	500	622	810	933	1017	1254
## ENSG00000002586	3329	3777	4958	4041	4482	5000
## ENSG00000124343	0	2	2	1	0	1
## ENSG00000056998	163	168	228	123	185	204
## ENSG00000006756	162	173	213	130	133	175
## ENSG00000157399	16	27	25	41	46	43
## ENSG00000205667	0	0	0	0	0	0
## ENSG00000062096	0	0	0	0	0	0
## ENSG00000101825	161	185	197	1875	1809	2285
## ENSG00000183943	248	340	367	672	760	821
## ENSG00000146938	0	0	0	0	0	0
## ENSG00000169059	0	0	0	0	0	0
## ENSG00000130021	448	544	689	414	479	508
## ENSG00000101846	361	426	527	547	607	730
## ENSG00000182583	0	0	0	0	0	0
## ENSG00000006757	77	59	92	52	46	44
## ENSG00000177504	0	0	0	0	0	0
## ENSG00000205642	0	0	0	0	0	0
## ENSG00000011201	19	17	11	19	33	13
## ENSG00000183304	0	0	0	0	0	0
## ENSG00000177138	0	0	0	0	0	0
## ENSG00000101849	800	933	1091	687	785	934
## ENSG00000101850	0	2	2	1	1	0
## ENSG00000146950	489	552	723	189	293	229
## ENSG00000234469	0	1	0	0	1	0
## ENSG00000047644	801	902	1139	828	854	1086
## ENSG00000073464	82	63	94	66	72	98

## ENSG00000101871	569	629	794	571	593	740
## ENSG00000004961	390	429	544	432	459	530
## ENSG00000047648	37	34	39	90	83	118
## ENSG00000125363	0	0	0	0	0	0
## ENSG00000005302	303	333	452	341	378	452
## ENSG00000169933	29	31	52	31	41	42
## ENSG00000101911	246	307	353	232	285	315
## ENSG00000196664	0	0	0	0	0	0
## ENSG00000101916	0	0	0	0	0	0
## ENSG00000205542	13058	14010	17217	5754	6712	6810
## ENSG00000187268	0	0	0	0	0	0
## ENSG00000123594	0	0	0	0	0	0
## ENSG00000198759	1	1	0	0	0	0
## ENSG00000176896	13	15	20	17	22	27
## ENSG00000123595	211	225	283	278	336	409
## ENSG00000196459	170	143	216	225	277	301
## ENSG00000046651	156	179	224	193	240	221
## ENSG00000046653	66	57	85	88	106	128
## ENSG00000046647	107	122	159	129	158	175
## ENSG00000101958	0	0	0	0	0	0
## ENSG00000181544	34	47	79	21	17	17
## ENSG00000130150	286	314	394	219	212	259
## ENSG00000102048	0	0	0	1	1	1
## ENSG00000165192	0	0	0	0	0	0
## ENSG00000165195	79	97	108	97	118	119
## ENSG00000165197	0	0	0	0	2	0
## ENSG00000087842	104	91	134	101	114	134
## ENSG00000102010	0	0	0	0	0	0
## ENSG00000130234	0	0	1	0	0	0
## ENSG00000147003	1	1	1	0	4	7
## ENSG00000169239	55	48	73	28	43	39
## ENSG00000169249	161	165	193	152	187	228
## ENSG00000182287	1309	1533	1944	1079	1254	1506
## ENSG00000126010	115	128	145	20	18	23
## ENSG00000182798	0	0	2	1	1	0
## ENSG00000047230	264	337	414	202	270	311
## ENSG00000169906	0	0	0	0	0	1
## ENSG00000169895	1675	2011	2519	2205	2413	2793
## ENSG00000086712	281	280	393	317	378	462
## ENSG00000102054	1043	1325	1765	908	1073	1222
## ENSG00000169891	3	4	6	8	3	6
## ENSG00000188158	57	66	72	81	88	107
## ENSG00000047634	131	145	186	141	180	204
## ENSG00000131831	6	0	17	13	11	20
## ENSG00000177324	0	0	0	0	0	0
## ENSG00000102098	35	35	36	9	7	6
## ENSG00000008086	230	296	344	220	235	257
## ENSG00000102104	0	0	0	0	0	0
## ENSG00000086717	0	0	0	0	1	1
## ENSG00000044446	154	160	240	143	142	202
## ENSG00000173698	2	4	6	1	9	8
## ENSG00000131828	670	787	964	530	622	643
## ENSG00000180815	1	1	2	4	2	3
## ENSG00000147010	1352	1614	2004	1866	1939	2554

## ENSG00000173681	104	109	114	105	142	146
## ENSG00000184368	4	2	11	5	8	9
## ENSG00000173674	1356	1566	1883	853	1047	1140
## ENSG00000177189	1082	1328	1545	1433	1648	2084
## ENSG00000149970	4	14	11	11	6	5
## ENSG00000185915	0	0	0	0	0	0
## ENSG00000091482	0	0	0	0	0	0
## ENSG00000012174	587	649	866	778	946	1104
## ENSG00000230797	18	22	36	24	26	34
## ENSG00000102172	3768	4363	5412	3084	3830	4051
## ENSG00000102174	8	12	13	19	23	40
## ENSG00000175809	0	0	0	0	0	0
## ENSG00000184735	0	0	0	0	0	0
## ENSG00000165186	0	0	0	1	6	2
## ENSG00000123131	1338	1626	1913	1668	1855	2060
## ENSG00000123130	684	807	985	584	636	778
## ENSG00000130066	329	381	414	1064	1239	1565
## ENSG00000184831	75	89	111	50	48	52
## ENSG00000165182	0	0	0	0	0	0
## ENSG00000174010	135	154	200	150	192	204
## ENSG00000130741	2289	2686	3274	2058	2336	2650
## ENSG00000005889	621	696	866	729	819	982
## ENSG00000067992	21	19	24	18	15	19
## ENSG00000102230	3	2	0	7	0	5
## ENSG00000101868	149	169	272	77	88	107
## ENSG00000004848	0	0	0	0	0	0
## ENSG00000176774	0	0	0	0	0	0
## ENSG00000232030	0	0	0	0	0	0
## ENSG00000176746	0	0	0	0	0	0
## ENSG00000188408	0	0	0	0	0	0
## ENSG00000189186	0	0	0	0	0	0
## ENSG00000177689	0	0	0	0	0	0
## ENSG00000226372	0	0	0	0	0	0
## ENSG00000169306	38	51	70	91	123	123
## ENSG00000099399	0	0	0	0	0	0
## ENSG00000198798	0	0	0	0	0	0
## ENSG00000120289	0	0	0	0	0	0
## ENSG00000214107	0	0	0	0	0	0
## ENSG00000169297	1	1	1	3	4	3
## ENSG00000120280	0	0	0	0	0	0
## ENSG00000198814	285	347	425	723	744	1067
## ENSG00000157625	321	367	447	334	440	452
## ENSG00000132446	0	0	0	0	0	0
## ENSG00000198947	244	258	322	182	235	229
## ENSG00000185448	0	0	0	0	0	0
## ENSG00000147027	3000	3555	4514	2408	2872	3292
## ENSG00000189132	0	0	0	0	0	0
## ENSG00000189023	0	0	0	0	0	0
## ENSG00000165164	0	0	0	0	0	0
## ENSG00000198173	0	0	0	0	0	0
## ENSG00000130962	313	370	452	1129	1231	1551
## ENSG00000250349	0	0	0	0	0	0
## ENSG00000147036	0	0	1	0	0	0
## ENSG00000047597	1	3	4	1	0	2



## ENSG00000165168	1	1	0	0	0	0
## ENSG00000165169	699	834	1026	1158	1204	1675
## ENSG00000187516	0	0	0	0	0	0
## ENSG00000147041	38	47	57	182	157	219
## ENSG00000101955	876	916	1295	1452	1457	1871
## ENSG00000156313	55	63	94	200	224	288
## ENSG00000036473	0	0	0	0	0	0
## ENSG00000156298	0	0	0	1	1	0
## ENSG00000165175	428	485	643	451	457	496
## ENSG00000183337	208	254	287	80	103	126
## ENSG00000182220	2120	2372	3099	3100	3578	4071
## ENSG00000185753	182	230	267	129	161	209
## ENSG00000180182	728	864	1025	572	676	723
## ENSG00000124486	2894	3310	3751	3442	3947	4433
## ENSG00000215301	5708	6827	8462	6850	7695	9044
## ENSG00000188937	0	0	0	0	0	0
## ENSG00000147044	479	566	721	703	783	933
## ENSG00000171659	0	1	0	0	1	0
## ENSG00000171657	0	0	0	0	0	0
## ENSG00000279849	0	1	0	0	0	0
## ENSG00000189221	4	12	12	2	1	3
## ENSG00000069535	3	6	11	2	1	6
## ENSG00000124479	8	7	7	10	8	12
## ENSG00000183690	5	3	5	11	12	14
## ENSG00000069509	95	104	137	49	79	82
## ENSG00000189037	0	0	0	0	0	0
## ENSG00000147050	263	326	396	478	515	653
## ENSG00000147113	1	0	0	0	0	0
## ENSG00000147121	108	111	198	131	167	208
## ENSG00000251192	51	55	64	68	66	83
## ENSG00000147119	168	178	226	161	163	203
## ENSG00000065923	1321	1488	1839	621	799	747
## ENSG00000102218	511	622	690	630	723	833
## ENSG00000102221	119	132	158	249	249	319
## ENSG00000130988	1	0	0	0	0	0
## ENSG00000147123	603	583	809	721	796	853
## ENSG00000182872	746	824	1114	792	785	998
## ENSG00000130985	7705	8546	11429	6760	7431	8625
## ENSG00000102225	1581	1913	2446	560	679	750
## ENSG00000102226	959	1051	1304	1463	1614	1841
## ENSG00000147117	0	0	0	0	0	0
## ENSG00000147124	117	123	200	129	152	166
## ENSG00000078061	647	835	979	760	863	1020
## ENSG00000008056	24	37	45	44	37	69
## ENSG00000102265	22480	24464	31688	27701	28632	35012
## ENSG00000126759	1	2	2	2	3	7
## ENSG00000126767	671	856	1072	903	1033	1141
## ENSG00000126756	282	323	409	331	403	448
## ENSG00000279988	0	0	0	0	0	0
## ENSG00000197779	93	94	141	168	163	178
## ENSG00000147118	45	42	76	87	64	102
## ENSG00000221994	13	21	25	15	18	13
## ENSG00000171489	0	0	0	0	0	0
## ENSG00000171478	0	0	0	0	0	0

## ENSG00000165583	0	1	0	0	0	0
## ENSG00000126752	0	0	0	0	0	0
## ENSG00000165584	0	0	0	0	0	0
## ENSG00000268009	0	0	0	0	0	0
## ENSG00000269791	0	0	0	0	0	0
## ENSG00000017483	170	191	239	52	64	66
## ENSG00000068438	523	599	858	381	427	497
## ENSG00000102312	92	115	130	135	149	199
## ENSG00000147155	189	204	307	192	178	273
## ENSG00000068354	222	250	333	235	268	342
## ENSG00000102317	3006	4164	4822	2582	3597	3664
## ENSG00000101940	548	620	747	724	788	973
## ENSG00000015285	3	1	3	0	1	2
## ENSG00000101945	72	91	151	41	41	46
## ENSG00000171433	0	0	0	0	0	0
## ENSG00000102145	0	0	0	0	0	0
## ENSG00000094631	249	228	347	224	217	254
## ENSG00000187682	0	0	0	0	0	0
## ENSG00000102109	3	2	3	4	5	6
## ENSG00000126768	282	328	413	365	426	419
## ENSG00000102103	451	479	617	401	426	503
## ENSG00000102100	483	525	684	652	686	873
## ENSG00000102096	81	118	100	96	93	131
## ENSG00000068308	1023	1146	1450	1264	1522	1776
## ENSG00000102057	44	36	83	16	37	28
## ENSG00000068400	444	433	573	556	562	659
## ENSG00000068323	1833	2109	2713	2149	2346	2911
## ENSG00000147144	45	41	56	77	98	117
## ENSG00000243279	719	767	999	1052	1118	1308
## ENSG00000250232	0	0	0	0	0	0
## ENSG00000196998	177	178	252	341	370	496
## ENSG00000068394	214	277	328	226	260	281
## ENSG00000280116	0	0	0	0	0	0
## ENSG00000269313	10	7	8	16	14	12
## ENSG00000102007	912	1105	1452	750	801	927
## ENSG00000012211	74	58	76	107	106	113
## ENSG00000102003	0	4	6	4	1	5
## ENSG00000102001	0	0	0	0	0	0
## ENSG00000101997	182	198	294	208	230	284
## ENSG00000049768	1	1	1	3	1	0
## ENSG00000049769	72	92	125	118	112	151
## ENSG00000215274	0	0	0	0	0	0
## ENSG00000224659	0	0	0	0	0	0
## ENSG00000274274	0	0	0	0	0	0
## ENSG00000275113	0	0	0	0	0	0
## ENSG00000236737	0	0	0	0	0	0
## ENSG00000237671	0	0	0	0	0	0
## ENSG00000227488	0	0	0	0	0	0
## ENSG00000216649	0	0	0	0	0	0
## ENSG00000236362	0	0	0	0	0	0
## ENSG00000215269	0	0	0	0	0	0
## ENSG00000224902	0	0	0	0	0	0
## ENSG00000205777	0	0	0	0	0	0
## ENSG00000189064	0	0	0	0	0	0

## ENSG00000068985	0	0	0	0	0	0
## ENSG000000101951	0	0	0	0	0	0
## ENSG000000273820	49	47	64	64	82	89
## ENSG000000171365	199	262	276	559	622	649
## ENSG000000147081	0	0	0	0	0	0
## ENSG000000147082	1	2	1	0	1	4
## ENSG000000274588	0	0	0	0	0	0
## ENSG000000158352	73	67	85	24	37	25
## ENSG000000130385	0	0	0	0	0	0
## ENSG000000122824	22	16	14	12	13	13
## ENSG000000187690	0	0	0	0	0	0
## ENSG000000196368	168	238	252	218	266	272
## ENSG000000189369	243	255	369	388	488	523
## ENSG000000179222	9170	10429	13484	10997	12614	13784
## ENSG000000187243	21	20	24	22	37	25
## ENSG000000154545	11	17	23	16	38	24
## ENSG000000155622	0	0	0	0	0	0
## ENSG000000204379	0	0	0	0	0	0
## ENSG000000204382	0	0	0	0	0	0
## ENSG000000187754	0	0	0	0	0	0
## ENSG000000241476	0	0	0	0	0	0
## ENSG000000268447	0	0	0	0	0	0
## ENSG000000204363	0	0	0	0	0	0
## ENSG000000171405	0	0	0	0	0	0
## ENSG000000171402	0	0	0	0	0	0
## ENSG000000179304	1	2	3	1	5	4
## ENSG000000268350	6	10	11	8	6	14
## ENSG000000184194	85	67	94	173	194	190
## ENSG000000184205	401	436	591	440	544	632
## ENSG000000126012	2247	2600	3232	3037	3379	4129
## ENSG000000124313	269	330	390	341	355	405
## ENSG000000072501	1748	1936	2591	1301	1520	1670
## ENSG000000158423	3	2	2	0	1	3
## ENSG000000072506	597	669	903	530	581	745
## ENSG000000086758	5819	6690	7590	6724	6859	7968
## ENSG000000172943	374	383	459	425	492	515
## ENSG000000184083	134	173	165	115	104	122
## ENSG000000196632	25	34	41	34	35	25
## ENSG000000158526	433	471	570	501	581	624
## ENSG000000102302	504	570	771	576	657	802
## ENSG000000130119	273	336	451	316	293	387
## ENSG000000102313	0	0	0	0	0	0
## ENSG000000102316	4047	4433	5740	4716	5368	5938
## ENSG000000067445	532	558	740	601	630	791
## ENSG000000158571	1	0	0	0	2	2
## ENSG000000169188	205	234	301	225	222	294
## ENSG000000158578	0	0	0	0	1	0
## ENSG000000238269	0	0	0	1	0	0
## ENSG000000234068	0	0	0	0	0	0
## ENSG000000158639	0	0	0	0	0	0
## ENSG000000182518	55	54	77	63	64	59
## ENSG000000256045	2	1	3	3	4	4
## ENSG000000204279	0	0	0	0	0	0
## ENSG000000187601	301	321	387	518	585	612

## ENSG00000247746	14	28	21	24	10	25
## ENSG00000189299	0	0	0	0	0	0
## ENSG00000083750	91	129	151	275	274	324
## ENSG00000102349	2	4	3	5	7	1
## ENSG00000188021	942	1016	1353	1698	1913	2229
## ENSG00000204271	34	27	44	38	43	53
## ENSG00000186787	15	17	27	28	30	31
## ENSG00000147059	0	1	3	2	2	3
## ENSG00000165591	0	0	2	0	2	1
## ENSG00000198455	240	257	337	251	295	369
## ENSG00000198205	55	53	73	51	56	79
## ENSG00000186767	74	76	126	94	85	98
## ENSG00000131089	161	195	228	177	230	244
## ENSG00000184675	98	102	157	135	121	134
## ENSG00000198881	0	0	0	0	0	0
## ENSG00000102043	0	0	0	0	0	0
## ENSG00000126970	102	127	165	194	255	262
## ENSG00000102053	14	21	22	11	16	9
## ENSG00000001497	361	448	568	408	485	478
## ENSG00000147065	18663	21824	28304	10943	12511	14266
## ENSG00000155659	0	0	0	0	0	0
## ENSG00000089472	492	576	761	1189	1371	1615
## ENSG00000131080	430	408	616	953	958	1173
## ENSG00000169083	132	140	165	110	140	155
## ENSG00000079482	182	188	240	203	243	225
## ENSG00000181704	621	694	887	748	790	982
## ENSG00000130052	54	64	85	11	17	12
## ENSG00000090776	514	560	720	869	873	1022
## ENSG00000181191	355	364	497	340	382	407
## ENSG00000130054	0	0	0	3	0	0
## ENSG00000158813	2	1	2	1	2	4
## ENSG00000147160	0	0	2	0	0	0
## ENSG00000189401	0	0	0	0	0	0
## ENSG00000089289	504	577	696	663	762	783
## ENSG00000184210	0	0	0	0	0	0
## ENSG00000204195	0	0	0	0	0	0
## ENSG00000186912	0	0	1	0	0	1
## ENSG00000120500	1	2	3	0	2	3
## ENSG00000147127	2	4	7	3	4	3
## ENSG00000120509	478	561	658	375	452	499
## ENSG00000090889	410	531	654	46	84	58
## ENSG00000130055	5	4	2	1	7	0
## ENSG00000082458	216	274	333	233	259	293
## ENSG00000120498	0	0	0	0	0	0
## ENSG00000165349	0	0	2	0	0	0
## ENSG00000147164	820	974	1183	996	1199	1381
## ENSG00000184481	80	83	116	185	203	248
## ENSG00000204165	0	0	0	0	0	0
## ENSG00000147168	0	0	0	0	0	0
## ENSG00000184634	672	776	1002	1003	1083	1248
## ENSG00000196338	5	3	6	7	8	13
## ENSG00000169562	0	0	0	0	0	0
## ENSG00000147130	554	642	850	425	509	512
## ENSG00000147140	4685	5343	7054	6808	7478	8892

## ENSG00000147166	10	6	5	0	2	3
## ENSG00000147133	460	480	589	478	566	628
## ENSG00000147162	1463	1395	1932	1761	2074	2275
## ENSG00000147174	10	4	12	21	26	16
## ENSG00000186810	0	0	0	0	0	0
## ENSG00000215115	0	0	0	0	0	0
## ENSG00000215113	0	0	0	0	0	0
## ENSG00000204131	47	36	58	8	12	22
## ENSG00000242732	153	105	187	141	168	193
## ENSG00000102309	202	273	327	281	321	390
## ENSG00000186871	108	166	210	14	25	28
## ENSG00000198034	8604	9816	11971	10085	11625	12978
## ENSG00000125931	0	3	3	0	2	1
## ENSG00000147099	178	187	246	185	199	233
## ENSG00000067177	185	189	243	122	140	148
## ENSG00000184911	0	0	0	0	0	0
## ENSG00000269502	0	0	0	0	0	0
## ENSG00000184388	0	0	0	0	0	0
## ENSG00000186288	0	0	0	0	0	0
## ENSG00000204118	0	0	0	0	0	0
## ENSG00000186462	3	5	1	2	7	2
## ENSG00000131264	0	0	0	0	0	0
## ENSG00000204116	206	254	308	255	309	391
## ENSG00000187969	0	0	0	0	0	0
## ENSG00000147100	1384	1598	2068	2121	2276	2780
## ENSG00000131263	951	1199	1400	1195	1451	1704
## ENSG00000050030	0	0	0	0	0	1
## ENSG00000131269	119	164	177	184	212	254
## ENSG00000094841	133	160	179	233	280	334
## ENSG00000102383	0	1	0	0	1	0
## ENSG00000186675	0	0	0	0	0	0
## ENSG00000102390	255	302	326	322	341	410
## ENSG00000198934	46	55	76	37	40	65
## ENSG00000196468	0	0	0	0	0	0
## ENSG00000085224	1709	1784	2400	2444	2941	3389
## ENSG00000102158	1524	1781	2278	1287	1625	1787
## ENSG00000131174	559	598	736	628	711	840
## ENSG00000165240	749	846	931	1175	1340	1545
## ENSG00000226784	2	4	4	1	1	4
## ENSG00000102144	5447	6310	7838	4076	4804	5221
## ENSG00000187325	339	402	489	219	269	298
## ENSG00000173198	0	0	0	0	0	0
## ENSG00000179300	5	6	14	1	1	0
## ENSG00000147145	1	0	0	0	0	1
## ENSG00000078589	0	0	0	0	0	0
## ENSG00000147138	0	0	0	0	0	0
## ENSG00000078596	0	0	0	1	0	0
## ENSG00000122145	0	0	0	0	0	0
## ENSG00000174016	0	0	0	0	0	0
## ENSG00000165288	343	356	367	385	409	476
## ENSG00000198157	39	38	49	51	55	62
## ENSG00000131171	1294	1483	1752	1662	2013	2229
## ENSG00000196767	0	0	0	0	0	0
## ENSG00000183035	0	0	0	0	0	0

## ENSG00000072133	178	208	229	354	414	544
## ENSG00000165259	61	84	121	75	114	121
## ENSG00000155008	327	400	419	268	283	312
## ENSG00000184788	0	0	0	0	0	0
## ENSG00000147180	51	52	59	64	81	108
## ENSG00000124429	0	0	0	0	0	0
## ENSG00000188419	511	542	693	533	621	621
## ENSG00000126733	45	59	67	69	80	77
## ENSG00000102271	33	43	65	9	6	8
## ENSG00000147183	0	0	0	0	0	0
## ENSG00000153779	0	0	0	0	0	0
## ENSG00000174740	22	20	24	18	26	32
## ENSG00000102290	0	1	0	0	1	0
## ENSG00000186310	109	132	184	121	134	154
## ENSG00000179083	0	0	1	0	1	1
## ENSG00000147202	432	482	593	409	424	546
## ENSG00000204086	1	1	1	2	1	5
## ENSG00000165194	0	1	1	22	22	19
## ENSG00000000005	0	0	0	0	0	0
## ENSG00000000003	384	393	568	991	1065	1273
## ENSG00000102359	715	782	929	1228	1352	1492
## ENSG00000102362	145	177	193	177	201	216
## ENSG00000101811	226	277	343	210	260	326
## ENSG00000007952	2	4	8	5	7	6
## ENSG00000182489	8	5	16	46	36	52
## ENSG00000174225	1	3	4	5	2	1
## ENSG00000188917	207	216	324	219	207	242
## ENSG00000126950	247	322	379	770	1000	956
## ENSG00000102384	155	178	268	47	41	51
## ENSG00000102385	288	343	421	383	425	456
## ENSG00000102387	4	8	9	9	5	12
## ENSG00000126953	105	103	153	102	117	130
## ENSG00000010671	0	1	0	0	0	1
## ENSG00000241343	42	39	55	26	50	51
## ENSG00000257529	0	0	0	0	0	0
## ENSG00000102393	317	357	414	872	1006	1253
## ENSG00000126945	909	1009	1296	1322	1582	1733
## ENSG00000196440	274	307	402	327	371	457
## ENSG00000126947	376	415	547	1033	1112	1287
## ENSG00000198960	196	207	270	159	158	173
## ENSG00000102401	1365	1480	1822	1633	1960	2094
## ENSG00000184867	1060	1130	1476	841	1018	998
## ENSG00000126952	0	0	0	0	0	0
## ENSG00000166432	1	1	2	0	0	0
## ENSG00000184905	0	0	1	0	0	0
## ENSG00000204071	0	1	3	1	2	0
## ENSG00000184515	0	0	0	0	0	0
## ENSG00000269405	0	0	0	0	0	0
## ENSG00000269437	0	0	0	0	0	0
## ENSG00000215029	0	0	0	0	0	0
## ENSG00000158164	44	44	59	21	28	38
## ENSG00000125962	93	97	135	85	139	126
## ENSG00000198932	52	67	79	50	63	71
## ENSG00000158301	278	300	370	200	225	284

## ENSG00000198908	93	115	109	115	136	157
## ENSG00000102128	0	0	0	1	0	3
## ENSG00000133169	1	3	2	7	7	7
## ENSG00000147206	0	0	0	0	0	0
## ENSG00000102409	53	69	69	58	69	70
## ENSG00000180964	612	733	847	311	374	394
## ENSG00000204065	0	0	0	1	0	0
## ENSG00000133134	1	0	0	5	4	1
## ENSG00000182916	95	132	153	174	179	259
## ENSG00000185222	1451	1812	2122	2861	3310	3886
## ENSG00000166681	2352	2611	3263	3667	3967	4651
## ENSG00000172476	8	13	12	20	15	22
## ENSG00000133142	731	803	920	982	1021	1242
## ENSG00000196507	367	403	462	310	378	400
## ENSG00000172465	119	141	142	135	186	218
## ENSG00000123562	4103	4759	5967	4003	4862	5509
## ENSG00000188828	0	1	0	0	0	0
## ENSG00000179363	0	0	0	0	0	0
## ENSG00000123560	2	2	6	1	2	3
## ENSG00000123570	20	25	23	16	40	25
## ENSG00000158427	4	3	8	10	10	18
## ENSG00000123569	0	0	0	0	0	0
## ENSG00000101812	0	0	0	0	0	0
## ENSG00000269226	3	4	10	4	1	6
## ENSG00000269743	27	33	52	38	54	68
## ENSG00000166707	15	15	17	30	27	29
## ENSG00000123575	479	591	714	673	775	928
## ENSG00000123576	1	0	0	0	0	0
## ENSG00000189108	0	0	0	0	0	0
## ENSG00000268629	0	0	0	0	0	0
## ENSG00000123572	278	317	411	113	135	145
## ENSG00000123561	0	0	0	0	0	0
## ENSG00000157502	0	0	0	5	11	19
## ENSG00000147231	19	17	34	16	15	23
## ENSG00000133135	247	262	347	264	273	279
## ENSG00000133138	510	556	726	415	597	594
## ENSG00000133131	828	916	1160	497	616	558
## ENSG00000147223	0	0	0	1	0	0
## ENSG00000165376	2	3	3	2	1	1
## ENSG00000089682	125	152	172	196	201	238
## ENSG00000198088	0	0	0	0	0	1
## ENSG00000080572	0	0	0	0	0	0
## ENSG00000147234	8	10	10	0	2	0
## ENSG00000147224	1387	1641	2153	738	970	892
## ENSG00000157514	159	175	208	331	355	476
## ENSG00000170935	0	0	0	0	0	0
## ENSG00000080561	21	36	25	30	35	47
## ENSG00000170925	0	0	0	0	0	0
## ENSG00000101842	0	2	1	4	4	1
## ENSG00000101843	452	604	673	364	402	502
## ENSG00000101844	175	228	306	342	369	435
## ENSG00000197565	66	89	124	1023	933	1374
## ENSG00000188153	853	892	1154	4666	4864	6181
## ENSG00000260548	0	0	0	0	0	0

## ENSG00000133124	0	0	1	1	1	1
## ENSG00000101890	0	0	0	0	0	1
## ENSG00000101888	42	72	90	70	83	91
## ENSG00000176076	2	0	4	6	3	4
## ENSG00000068366	2396	3063	3558	6790	6974	10144
## ENSG00000157600	334	367	458	1295	1208	1740
## ENSG00000101935	342	390	471	970	1106	1276
## ENSG00000243978	15	15	26	12	10	18
## ENSG00000101938	21	10	26	10	15	17
## ENSG00000077264	22	29	42	12	10	11
## ENSG00000077274	0	0	0	0	0	0
## ENSG00000077279	0	0	0	0	0	0
## ENSG00000101901	248	307	349	251	281	344
## ENSG00000072315	30	26	28	4	7	5
## ENSG00000187823	1	0	3	0	1	1
## ENSG00000182508	5	4	7	0	3	3
## ENSG00000126016	270	305	376	132	120	149
## ENSG00000147246	0	0	0	0	0	0
## ENSG00000123496	9	5	26	48	28	49
## ENSG00000130224	280	315	372	379	415	542
## ENSG00000175718	0	0	0	0	0	0
## ENSG00000102021	0	0	0	0	0	0
## ENSG00000102024	4439	5017	6275	1572	1904	1943
## ENSG00000180772	0	0	0	0	0	0
## ENSG00000268104	0	0	0	0	0	0
## ENSG00000204019	0	0	0	0	0	0
## ENSG00000003096	100	132	139	57	65	70
## ENSG00000131725	475	516	655	486	595	677
## ENSG00000147251	315	374	459	378	442	486
## ENSG00000131724	1263	1565	1810	2079	2330	2676
## ENSG00000174460	5	2	2	13	10	10
## ENSG00000175556	0	0	1	2	1	2
## ENSG00000250423	0	0	0	0	0	0
## ENSG00000101856	1124	1400	1703	1187	1400	1589
## ENSG00000077713	273	338	422	210	236	228
## ENSG00000005022	1627	1868	2352	1389	1552	1826
## ENSG00000018610	217	242	343	320	306	358
## ENSG00000077721	962	1104	1372	1286	1419	1708
## ENSG00000186416	100	115	165	168	177	236
## ENSG00000125354	325	391	442	267	313	329
## ENSG00000187808	4	0	3	0	1	1
## ENSG00000198918	1463	1545	1868	1323	1388	1522
## ENSG00000125351	177	207	237	240	294	341
## ENSG00000125352	117	105	122	116	141	179
## ENSG00000125356	548	697	753	681	691	908
## ENSG00000186471	0	0	0	0	0	0
## ENSG00000101882	245	242	323	332	400	460
## ENSG00000203989	0	0	0	0	0	0
## ENSG00000101883	0	0	0	0	0	0
## ENSG00000131721	0	0	0	0	0	0
## ENSG00000177485	363	411	498	637	718	919
## ENSG00000125355	0	0	1	0	1	1
## ENSG00000101892	0	0	0	0	0	0
## ENSG00000005893	2483	2981	3574	4134	4590	5361



## ENSG00000158290	1427	1548	1976	1586	1882	2158
## ENSG00000232119	364	409	511	373	398	488
## ENSG00000171155	200	220	296	332	388	408
## ENSG00000236446	0	0	0	0	0	0
## ENSG00000230347	0	0	0	0	0	0
## ENSG00000278646	0	0	0	0	0	0
## ENSG00000226685	0	0	0	0	0	0
## ENSG00000226929	0	0	0	0	0	0
## ENSG00000224089	0	0	0	0	0	0
## ENSG00000226600	0	0	0	0	0	0
## ENSG00000226023	0	0	0	0	0	0
## ENSG00000228517	0	0	0	0	0	0
## ENSG00000237957	0	0	0	0	0	0
## ENSG00000230594	0	0	0	0	0	0
## ENSG00000236126	0	0	0	0	0	0
## ENSG00000242362	0	0	0	0	0	0
## ENSG00000236371	0	0	0	0	0	0
## ENSG00000182890	9	13	23	11	13	8
## ENSG00000125675	0	1	2	0	1	0
## ENSG00000125676	926	1029	1259	1118	1314	1598
## ENSG00000101966	786	946	1149	1584	1841	2224
## ENSG00000101972	1127	1271	1638	2183	2463	3082
## ENSG00000282419	0	0	0	0	0	0
## ENSG00000183918	0	0	0	0	1	0
## ENSG00000009694	0	0	2	6	14	27
## ENSG00000282815	0	0	0	0	0	0
## ENSG00000198354	0	0	0	0	0	0
## ENSG00000198889	0	0	0	0	0	0
## ENSG00000183631	0	0	0	0	0	0
## ENSG00000123165	0	0	0	0	0	0
## ENSG00000102038	2006	2313	2837	2412	2870	3237
## ENSG00000122126	930	1061	1258	999	1158	1239
## ENSG00000171388	5	2	10	5	9	9
## ENSG00000122121	0	0	0	0	0	0
## ENSG00000122122	0	0	0	0	0	0
## ENSG00000188706	922	1069	1326	929	1111	1249
## ENSG00000156697	321	368	424	377	397	512
## ENSG00000085185	226	212	318	168	161	193
## ENSG00000102034	517	603	744	376	404	426
## ENSG00000156709	451	564	688	508	575	646
## ENSG00000134594	7	21	12	3	12	8
## ENSG00000056277	75	59	61	107	99	125
## ENSG00000102078	96	106	138	166	165	173
## ENSG00000147262	0	0	0	0	0	0
## ENSG00000134597	151	193	249	216	218	263
## ENSG00000165675	133	154	194	166	199	230
## ENSG00000147256	0	0	0	0	0	0
## ENSG00000147255	0	0	0	0	0	1
## ENSG00000171054	0	0	0	0	0	0
## ENSG00000134602	3	4	3	4	2	10
## ENSG00000165694	0	0	0	0	0	0
## ENSG00000123728	687	805	1004	991	1150	1372
## ENSG00000076770	31	29	45	23	26	34
## ENSG00000171004	0	0	1	0	0	1

## ENSG00000134588	0	0	0	0	0	0
## ENSG00000183434	0	0	0	0	0	0
## ENSG00000076716	116	106	152	352	469	476
## ENSG00000147257	0	0	0	0	0	1
## ENSG00000203952	2	0	2	0	2	1
## ENSG00000156531	460	574	718	362	375	478
## ENSG00000165704	215	270	324	160	168	205
## ENSG00000170965	0	1	0	0	1	0
## ENSG00000156504	345	417	505	174	197	263
## ENSG00000156500	19	39	37	35	49	47
## ENSG00000101928	466	472	566	763	813	1015
## ENSG00000184785	124	161	184	222	211	228
## ENSG00000212747	410	487	577	691	737	868
## ENSG00000134590	2839	3333	4312	3879	4254	4647
## ENSG00000203950	381	477	628	806	837	1059
## ENSG00000196972	13	16	24	18	19	19
## ENSG00000169551	0	0	0	0	0	0
## ENSG00000186376	111	129	180	239	241	313
## ENSG00000173275	110	120	151	127	110	134
## ENSG00000178947	2	2	2	4	6	3
## ENSG00000165359	68	69	102	90	98	106
## ENSG00000268940	0	0	0	0	0	0
## ENSG00000269096	0	0	0	0	0	0
## ENSG00000228836	0	0	0	0	0	0
## ENSG00000278289	0	0	0	0	0	0
## ENSG00000271449	0	0	0	0	0	0
## ENSG00000273696	0	0	0	0	0	0
## ENSG00000278085	0	0	0	0	0	0
## ENSG00000270946	0	0	0	0	0	0
## ENSG00000269586	0	0	0	0	0	0
## ENSG00000181433	0	0	0	0	0	0
## ENSG00000169446	528	688	777	656	687	859
## ENSG00000198689	383	432	631	363	382	459
## ENSG00000022267	889	1045	1342	1383	1617	1853
## ENSG00000129680	444	551	607	290	350	369
## ENSG00000156920	0	0	0	0	0	0
## ENSG00000102239	0	0	0	0	0	0
## ENSG00000102241	706	838	997	834	998	1062
## ENSG00000102243	0	0	0	0	0	0
## ENSG00000102245	0	0	0	0	0	0
## ENSG00000129675	94	117	125	100	115	135
## ENSG00000147274	1714	2113	2581	1375	1729	1937
## ENSG00000165370	0	0	0	0	0	0
## ENSG00000156925	0	0	0	0	0	0
## ENSG00000129682	1	0	4	4	5	6
## ENSG00000101981	0	0	0	0	0	0
## ENSG00000101977	0	0	0	3	2	0
## ENSG00000101974	688	789	1068	793	964	1171
## ENSG00000203933	0	0	0	0	0	0
## ENSG00000134595	0	0	0	0	0	0
## ENSG00000184258	4	15	8	5	12	10
## ENSG00000227234	0	0	0	0	0	1
## ENSG00000182195	868	891	1251	1140	1323	1354
## ENSG00000198573	0	0	0	0	0	0

## ENSG00000198021	0	0	0	0	0	0
## ENSG00000203926	0	0	0	0	0	0
## ENSG00000196406	0	0	0	0	0	0
## ENSG00000165509	0	0	0	0	0	0
## ENSG00000155495	0	0	0	0	0	0
## ENSG00000046774	0	0	0	0	0	0
## ENSG00000189326	0	0	0	0	0	0
## ENSG00000189252	0	0	0	0	0	0
## ENSG00000179542	0	0	0	0	0	0
## ENSG00000268988	0	0	0	0	0	0
## ENSG00000203923	0	0	0	0	0	0
## ENSG00000185985	0	0	0	0	0	0
## ENSG00000221870	0	0	0	0	0	0
## ENSG00000102081	315	384	421	450	482	531
## ENSG00000176988	0	0	0	0	0	0
## ENSG00000155966	22	17	26	14	15	23
## ENSG00000010404	899	1014	1246	1343	1456	1712
## ENSG00000241489	2	3	5	7	4	5
## ENSG00000197620	92	114	133	97	122	146
## ENSG00000267978	0	0	1	0	0	0
## ENSG00000268738	0	0	1	0	0	1
## ENSG00000269556	161	184	247	119	134	147
## ENSG00000185247	0	0	0	0	0	0
## ENSG00000171116	0	0	0	1	0	0
## ENSG00000123584	0	0	0	1	0	0
## ENSG00000156009	0	1	0	0	0	0
## ENSG00000197021	229	287	375	283	283	331
## ENSG00000013619	215	279	365	46	57	70
## ENSG00000171100	162	150	214	169	199	214
## ENSG00000063601	588	618	831	278	367	405
## ENSG00000102181	1252	1338	1711	1488	1664	1879
## ENSG00000029993	401	548	656	448	571	584
## ENSG00000102195	0	0	0	0	0	0
## ENSG00000160131	504	640	748	916	976	1169
## ENSG00000166049	0	0	0	0	0	0
## ENSG00000130032	0	0	0	0	0	0
## ENSG00000147378	0	0	0	0	0	0
## ENSG00000183862	0	0	0	0	0	0
## ENSG00000147381	0	0	0	0	0	0
## ENSG00000102287	6	4	8	8	7	11
## ENSG00000124260	0	0	0	0	0	0
## ENSG00000011677	0	0	0	0	0	0
## ENSG00000268089	0	0	1	1	0	0
## ENSG00000221867	0	0	0	0	0	0
## ENSG00000183305	0	0	0	0	0	0
## ENSG00000198930	0	0	0	0	0	0
## ENSG00000213401	0	0	0	0	0	0
## ENSG00000268606	0	0	0	0	0	0
## ENSG00000197172	0	0	0	0	0	0
## ENSG00000147400	531	606	719	676	770	893
## ENSG00000147383	354	334	473	506	579	691
## ENSG00000147394	32	36	51	29	38	48
## ENSG00000198883	0	0	0	0	0	0
## ENSG00000183837	0	0	0	0	1	0

## ENSG00000235961	5	1	7	6	0	4
## ENSG00000198681	0	0	0	0	0	0
## ENSG00000225110	0	0	0	0	0	0
## ENSG00000063587	449	517	673	500	612	632
## ENSG00000214897	0	0	0	0	0	0
## ENSG00000189420	7	11	7	1	4	4
## ENSG00000183479	6	4	6	8	8	3
## ENSG00000213397	2	1	1	2	3	3
## ENSG00000182492	4671	4923	6955	6234	7068	7491
## ENSG00000067842	2	2	4	0	0	2
## ENSG00000262919	276	271	340	264	270	287
## ENSG00000130829	0	0	0	0	0	1
## ENSG00000130822	1	1	1	1	3	3
## ENSG00000130821	667	784	1017	1597	1669	2075
## ENSG00000185825	2168	2303	3042	3207	3417	4184
## ENSG00000101986	348	383	559	478	513	630
## ENSG00000198753	127	131	186	178	178	231
## ENSG00000184343	2	2	3	3	1	1
## ENSG00000067829	593	634	897	676	814	887
## ENSG00000180879	1163	1341	1559	1774	1769	2091
## ENSG00000067840	2	4	7	6	11	8
## ENSG00000198910	162	206	277	78	91	107
## ENSG00000126895	0	0	0	0	0	0
## ENSG00000089820	1	2	1	5	2	7
## ENSG00000102030	393	395	527	377	422	497
## ENSG00000102032	1	2	1	17	12	20
## ENSG00000172534	1587	1871	2481	2175	2246	2788
## ENSG00000177854	67	83	74	83	83	98
## ENSG00000184216	2513	2807	3756	2481	2652	3242
## ENSG00000169057	693	784	946	1052	1152	1309
## ENSG00000102076	0	0	0	0	0	0
## ENSG00000268221	0	0	0	0	0	0
## ENSG00000166160	0	0	0	0	0	0
## ENSG00000269433	0	0	0	0	0	0
## ENSG00000278057	0	0	0	0	0	0
## ENSG00000007350	0	0	0	0	0	0
## ENSG00000196924	70580	80316	106439	46918	54920	61131
## ENSG00000102119	761	946	1189	874	950	1152
## ENSG00000147403	8836	10077	12444	9128	10238	11549
## ENSG00000013563	309	337	466	414	434	535
## ENSG00000102125	114	115	189	126	165	210
## ENSG00000071553	1969	2207	2899	3446	3488	4389
## ENSG00000203879	2704	2850	4055	3611	3898	4766
## ENSG00000071859	1150	1279	1622	1116	1201	1298
## ENSG00000130827	2477	2721	3640	3466	3814	4414
## ENSG00000196976	50	60	72	92	83	113
## ENSG00000102178	430	530	639	443	486	621
## ENSG00000126903	444	555	684	210	214	221
## ENSG00000071889	418	429	616	671	679	777
## ENSG00000160211	3171	3384	4341	4528	4748	5847
## ENSG00000269335	120	163	192	173	183	227
## ENSG00000268651	3	1	0	0	0	2
## ENSG00000184033	0	0	2	1	0	1
## ENSG00000126890	199	237	302	231	261	303

## ENSG00000160219	37	29	42	18	21	21
## ENSG00000130826	908	1047	1363	704	814	908
## ENSG00000130830	480	499	625	249	294	353
## ENSG00000203870	0	0	1	0	0	0
## ENSG00000185010	26	26	40	37	50	76
## ENSG00000274183	0	0	0	0	0	0
## ENSG00000277203	103	89	145	102	121	123
## ENSG00000165775	352	380	477	537	580	668
## ENSG00000182712	0	0	0	0	0	0
## ENSG00000214827	5	5	9	5	10	11
## ENSG00000185515	323	368	380	302	303	427
## ENSG00000155959	643	783	984	706	786	1003
## ENSG00000155961	19	13	26	8	12	10
## ENSG00000155962	0	3	3	4	6	5
## ENSG00000277858	0	0	0	0	0	0
## ENSG00000274791	0	0	2	1	2	0
## ENSG00000277150	1	4	3	2	7	2
## ENSG00000277745	0	0	0	0	0	0
## ENSG00000185973	92	111	147	66	71	91
## ENSG00000168939	34	32	44	50	38	31
## ENSG00000124333	893	1090	1423	972	1201	1344
## ENSG00000124334	0	0	0	0	0	0
## ENSG00000176269	0	0	0	0	0	0
## ENSG00000172748	29	18	31	29	32	39
## ENSG00000147364	197	256	300	354	438	466
## ENSG00000180190	107	133	158	256	250	346
## ENSG00000104714	161	163	193	216	246	249
## ENSG00000198010	0	1	1	0	0	0
## ENSG00000182372	411	485	578	1325	1357	1696
## ENSG00000104728	1024	1083	1399	695	806	913
## ENSG00000176595	11	7	8	16	20	24
## ENSG00000036448	2	3	7	1	5	6
## ENSG00000183117	5	7	5	0	3	2
## ENSG00000147316	208	262	335	262	305	364
## ENSG00000091879	0	3	5	67	77	109
## ENSG00000155189	239	284	419	288	240	375
## ENSG00000275591	12	13	19	2	4	3
## ENSG00000164825	0	0	0	0	0	0
## ENSG00000164822	0	0	0	0	0	0
## ENSG00000164821	0	0	0	0	0	0
## ENSG00000206047	0	0	0	0	0	0
## ENSG00000240247	0	0	0	0	0	0
## ENSG00000239839	0	0	0	0	0	0
## ENSG00000164816	0	0	0	0	0	0
## ENSG00000230549	0	0	0	0	0	0
## ENSG00000236125	0	0	0	0	0	0
## ENSG00000215372	0	0	0	0	0	0
## ENSG00000177257	0	0	0	0	0	0
## ENSG00000177243	0	0	0	0	0	0
## ENSG00000164871	0	0	0	0	0	0
## ENSG00000177023	0	0	0	0	0	0
## ENSG00000187082	0	0	0	0	0	0
## ENSG00000186599	0	0	0	0	0	0
## ENSG00000198129	0	0	0	0	0	0

## ENSG00000255251	0	0	0	0	0	0
## ENSG00000255378	0	0	0	0	0	0
## ENSG00000186572	0	0	0	0	0	0
## ENSG00000186562	0	0	0	0	0	0
## ENSG00000186579	0	0	0	0	0	0
## ENSG00000176782	0	0	0	0	0	0
## ENSG00000178287	0	0	0	0	0	0
## ENSG00000176797	0	0	0	0	0	0
## ENSG00000171711	0	0	0	0	0	0
## ENSG00000215356	0	0	0	0	0	0
## ENSG00000237038	0	0	0	0	0	0
## ENSG00000225327	0	0	0	0	0	0
## ENSG00000275342	806	866	1104	1003	1209	1249
## ENSG00000253958	26	33	18	55	47	52
## ENSG00000147324	293	388	480	1051	997	1334
## ENSG00000104626	349	380	503	156	163	176
## ENSG00000173281	148	166	165	141	166	180
## ENSG00000173273	941	1018	1180	817	873	1182
## ENSG00000175806	169	246	261	219	291	313
## ENSG00000184647	0	0	0	0	0	0
## ENSG00000183638	0	1	2	0	0	1
## ENSG00000171060	0	0	0	0	0	0
## ENSG00000171056	0	1	0	1	3	1
## ENSG00000258724	0	0	0	0	0	0
## ENSG00000254093	55	60	91	48	59	78
## ENSG00000171044	17	23	47	27	37	48
## ENSG00000280273	2	1	0	1	5	4
## ENSG00000104643	385	483	541	283	344	359
## ENSG00000177710	5	1	0	1	2	2
## ENSG00000154319	35	35	43	86	109	97
## ENSG00000136573	0	0	0	1	1	1
## ENSG00000136574	1	0	0	1	0	1
## ENSG00000154328	216	271	325	147	192	209
## ENSG00000079459	1189	1335	1729	2144	2278	2889
## ENSG00000164733	16885	18378	23942	28408	29759	35653
## ENSG00000205884	0	0	0	0	0	0
## ENSG00000205883	0	0	0	0	0	0
## ENSG00000205882	0	0	0	0	0	0
## ENSG00000233050	0	0	0	0	0	0
## ENSG00000215343	0	0	0	0	0	0
## ENSG00000226430	0	0	0	0	0	0
## ENSG00000223443	0	0	0	1	0	0
## ENSG00000186523	15	7	10	1	4	7
## ENSG00000232948	0	0	0	0	0	0
## ENSG00000145002	1	4	2	1	0	1
## ENSG00000154359	94	112	113	158	165	195
## ENSG00000250305	30	51	59	19	23	28
## ENSG00000164741	3955	4963	5952	5617	6966	7502
## ENSG00000164743	27	31	41	29	21	27
## ENSG00000185053	5	7	15	14	22	12
## ENSG00000104723	1727	1982	2476	2697	2876	3429
## ENSG00000038945	7	9	16	5	12	18
## ENSG00000078579	3	1	4	2	2	2
## ENSG00000155970	300	327	419	508	630	658

## ENSG00000104219	901	997	1219	479	587	652
## ENSG00000198791	1083	1321	1595	1229	1392	1685
## ENSG00000155975	688	796	951	1026	1216	1389
## ENSG00000003987	15	16	25	27	31	27
## ENSG00000003989	634	770	849	843	952	1332
## ENSG00000104213	333	391	471	229	297	281
## ENSG00000129422	69	52	67	194	253	274
## ENSG00000104760	0	0	0	0	0	0
## ENSG00000078674	1387	1492	1835	2158	2560	2818
## ENSG00000104763	763	788	1027	1308	1452	1711
## ENSG00000171428	48	61	61	42	38	63
## ENSG00000156006	0	1	0	0	0	1
## ENSG00000156011	677	839	939	2793	3005	3423
## ENSG00000104611	433	432	586	155	203	208
## ENSG00000147408	215	231	297	715	837	1025
## ENSG00000104613	560	695	847	779	839	959
## ENSG00000175445	0	1	0	0	0	1
## ENSG00000036565	0	0	0	0	0	0
## ENSG00000147416	1195	1392	1631	1085	1240	1381
## ENSG00000061337	273	282	376	360	424	386
## ENSG00000168546	1	0	0	0	0	0
## ENSG00000147443	1	2	1	1	1	1
## ENSG00000130227	1336	1499	1939	548	618	677
## ENSG00000158806	5	1	1	6	2	9
## ENSG00000158815	0	0	0	2	0	2
## ENSG00000158856	13	17	9	23	20	32
## ENSG00000158863	702	838	1082	1221	1393	1525
## ENSG00000275074	96	120	161	104	96	133
## ENSG00000168453	85	93	121	46	46	60
## ENSG00000168476	376	415	578	445	450	564
## ENSG00000168481	2	1	1	1	1	5
## ENSG00000168484	1	1	0	0	0	0
## ENSG00000168487	1724	1843	2536	2932	3122	3766
## ENSG00000168490	7	12	22	5	4	13
## ENSG00000168495	719	816	937	1111	1182	1409
## ENSG00000197181	0	0	1	1	0	1
## ENSG00000104635	2171	2447	3122	1710	1875	2280
## ENSG00000120910	233	256	332	248	337	367
## ENSG00000120896	1245	1580	1936	1182	1376	1415
## ENSG00000120913	573	664	827	371	462	394
## ENSG00000248235	0	0	0	0	0	1
## ENSG00000241852	180	219	239	177	186	248
## ENSG00000158941	925	1099	1378	1203	1286	1534
## ENSG00000147439	218	221	307	253	296	306
## ENSG00000179388	61	43	73	135	156	162
## ENSG00000134020	0	1	0	1	0	0
## ENSG00000008853	301	312	401	446	515	556
## ENSG00000120889	3039	3468	4380	4653	4944	6016
## ENSG00000173535	34	32	32	79	83	99
## ENSG00000173530	4327	4774	6402	9482	9816	12396
## ENSG00000104689	53	43	52	100	115	125
## ENSG00000147457	677	753	967	1006	1078	1328
## ENSG00000104679	346	360	483	304	380	377
## ENSG00000134013	14063	15648	20426	18027	20287	23657

## ENSG00000197217	1456	1616	2017	2828	3081	3724
## ENSG00000147454	455	498	639	840	851	1142
## ENSG00000167034	89	104	131	251	243	361
## ENSG00000180053	2	0	4	7	8	3
## ENSG00000159167	1560	2102	2492	28854	23524	41891
## ENSG00000042980	1	2	1	4	6	2
## ENSG00000134028	0	0	0	0	0	0
## ENSG00000069206	0	0	0	0	0	0
## ENSG00000104722	26	29	42	60	33	63
## ENSG00000277586	4	5	6	12	21	23
## ENSG00000147459	804	956	1113	726	734	864
## ENSG00000147437	19	17	9	21	24	22
## ENSG00000104756	964	1212	1547	1119	1338	1566
## ENSG00000184661	239	334	442	57	69	60
## ENSG00000221818	0	0	0	0	0	0
## ENSG00000221914	769	941	1117	1003	1162	1431
## ENSG00000104765	1743	1932	2289	3049	3548	4180
## ENSG00000240694	0	2	1	2	0	3
## ENSG00000092964	1732	1794	2283	846	970	1083
## ENSG00000120907	0	0	0	0	0	0
## ENSG00000015592	0	0	1	0	0	0
## ENSG00000104228	318	362	449	413	462	539
## ENSG00000120899	21	19	32	10	10	7
## ENSG00000120903	0	0	0	0	0	0
## ENSG00000120915	0	0	2	1	0	4
## ENSG00000120885	5796	5940	8158	9127	9669	11026
## ENSG00000168077	3065	3593	4714	3140	3462	3836
## ENSG00000147419	436	522	626	336	376	442
## ENSG00000171320	65	91	103	10	10	8
## ENSG00000168078	228	348	422	34	67	62
## ENSG00000168079	0	0	0	0	0	0
## ENSG00000189233	0	1	0	0	0	0
## ENSG00000134014	340	368	474	362	378	465
## ENSG00000168081	0	0	0	0	0	0
## ENSG00000186918	94	127	143	64	98	72
## ENSG00000214050	0	1	0	0	0	0
## ENSG00000104290	2	1	2	12	8	11
## ENSG00000012232	1385	1620	2109	743	831	1012
## ENSG00000104299	167	191	237	179	168	234
## ENSG00000147421	152	166	203	179	220	235
## ENSG00000197892	456	545	621	394	471	460
## ENSG00000120875	21	26	27	154	145	191
## ENSG00000133872	1739	1946	2324	2706	3008	3543
## ENSG00000104660	504	602	752	946	1084	1244
## ENSG00000177669	2	0	1	3	0	1
## ENSG00000104671	189	232	261	285	329	397
## ENSG00000157110	1256	1310	1781	2279	2576	2892
## ENSG00000197265	491	584	720	672	728	853
## ENSG00000253457	0	0	1	0	1	2
## ENSG00000104687	822	923	1269	1682	1880	2388
## ENSG00000104691	114	136	182	154	147	204
## ENSG00000104695	1309	1565	1903	916	1020	1140
## ENSG00000133863	1	5	3	1	2	1
## ENSG00000172733	28	23	35	12	12	15



## ENSG00000165392	243	231	335	290	372	355
## ENSG00000157168	431	488	640	3129	2948	4485
## ENSG00000172728	103	149	173	123	149	120
## ENSG00000129696	99	122	150	103	142	176
## ENSG00000198042	322	383	464	437	506	595
## ENSG00000133874	27	29	54	130	156	198
## ENSG00000133878	0	0	0	0	2	1
## ENSG00000156687	0	0	0	0	0	0
## ENSG00000215262	3	3	5	0	1	1
## ENSG00000183779	1236	1295	1786	793	1017	915
## ENSG00000147475	1253	1413	1801	1281	1419	1663
## ENSG00000147471	443	488	608	344	388	458
## ENSG00000020181	2354	2580	3331	2445	2841	2913
## ENSG00000104221	106	116	148	133	107	151
## ENSG00000156675	215	253	299	132	160	125
## ENSG00000169154	0	0	0	0	0	0
## ENSG00000188778	1	0	0	0	0	0
## ENSG00000187840	728	788	970	285	363	372
## ENSG00000129691	446	549	676	515	567	697
## ENSG00000147465	3	2	7	4	4	2
## ENSG00000175324	228	290	320	279	304	364
## ENSG00000156735	445	447	597	467	565	637
## ENSG00000085788	535	644	757	765	893	957
## ENSG00000147535	295	333	390	508	541	698
## ENSG00000147548	900	1125	1261	1971	2125	2523
## ENSG00000165046	44	52	55	68	82	85
## ENSG00000077782	3268	3741	4855	4902	5457	6632
## ENSG00000196166	0	1	0	0	0	0
## ENSG00000147526	2445	3053	3582	1787	2144	2335
## ENSG00000169499	498	498	682	190	240	238
## ENSG00000169495	0	2	0	0	1	0
## ENSG00000169490	955	1064	1266	1044	1156	1391
## ENSG00000168615	10200	11318	14742	7811	9042	10267
## ENSG00000197140	4	7	7	20	13	19
## ENSG00000168619	0	0	0	0	0	0
## ENSG00000104755	0	0	0	0	0	0
## ENSG00000131203	0	0	0	0	0	2
## ENSG00000188676	0	0	0	0	0	0
## ENSG00000176907	25	30	40	132	137	190
## ENSG00000165061	0	4	2	9	7	10
## ENSG00000104332	15373	17154	22061	13118	14652	15141
## ENSG00000147533	657	788	979	1078	1184	1437
## ENSG00000147536	250	286	399	89	88	117
## ENSG00000158669	1193	1296	1710	2193	2358	2791
## ENSG00000165066	0	0	0	0	0	0
## ENSG00000029534	16	29	32	42	36	40
## ENSG00000083168	900	984	1247	959	1028	1265
## ENSG00000070718	369	428	537	626	619	834
## ENSG00000104368	4142	4684	6120	20868	20024	27550
## ENSG00000104365	558	604	808	1211	1132	1566
## ENSG00000070501	143	173	205	394	423	529
## ENSG00000104371	0	0	0	0	0	1
## ENSG00000078668	939	1099	1391	878	979	1148
## ENSG00000168575	880	1015	1332	436	478	544

## ENSG00000176209	76	74	91	45	44	47
## ENSG00000147432	0	0	0	0	0	0
## ENSG00000147434	0	0	0	0	0	0
## ENSG00000131931	156	159	202	196	236	248
## ENSG00000120925	247	280	334	287	332	404
## ENSG00000168172	972	1389	1526	1114	1318	1532
## ENSG00000254673	0	0	0	0	0	0
## ENSG00000168522	378	393	546	507	592	660
## ENSG00000185900	49	54	76	121	122	144
## ENSG00000165102	1504	1719	2153	2398	2596	3172
## ENSG00000164808	314	310	341	424	443	590
## ENSG00000221869	295	307	346	460	489	566
## ENSG00000253729	4822	5828	6126	3698	4426	4609
## ENSG00000104738	756	945	1179	582	680	764
## ENSG00000169139	658	904	989	758	877	1070
## ENSG00000034239	0	1	1	1	0	1
## ENSG00000019549	716	822	997	680	805	920
## ENSG00000168333	0	0	0	0	0	0
## ENSG00000147481	5	5	4	9	15	12
## ENSG00000147485	0	5	5	5	4	6
## ENSG00000168300	378	370	492	1200	1233	1595
## ENSG00000147488	2	3	2	3	7	3
## ENSG00000196711	12	30	25	9	7	12
## ENSG00000023287	1110	1258	1500	2806	2946	3878
## ENSG00000183729	0	0	0	0	0	0
## ENSG00000082556	0	0	0	0	0	0
## ENSG00000047249	725	787	1053	1293	1520	1752
## ENSG00000147509	124	148	206	131	147	196
## ENSG00000187735	1155	1305	1668	685	809	895
## ENSG00000280473	0	0	0	0	0	0
## ENSG00000120992	698	916	1099	1108	1289	1594
## ENSG00000137547	493	546	682	578	605	748
## ENSG00000164736	0	0	0	0	0	0
## ENSG00000104237	0	0	0	1	0	0
## ENSG00000206579	0	0	0	0	0	0
## ENSG00000167904	129	149	199	218	262	303
## ENSG00000137574	258	271	316	346	403	451
## ENSG00000254087	116	129	161	108	142	155
## ENSG00000008988	4621	5230	6270	4947	5633	6324
## ENSG00000172680	0	0	0	0	0	0
## ENSG00000181690	237	309	358	194	202	256
## ENSG00000170791	308	291	424	297	299	312
## ENSG00000170786	0	0	0	0	0	0
## ENSG00000181195	12	20	21	28	32	53
## ENSG00000104331	2232	2748	3331	2498	2885	3246
## ENSG00000169122	40	39	44	36	33	39
## ENSG00000215114	202	211	249	284	276	364
## ENSG00000167910	0	0	0	0	0	0
## ENSG00000137575	1823	2121	2619	4216	4554	5931
## ENSG00000035681	573	669	874	822	901	1109
## ENSG00000198846	83	94	98	37	41	33
## ENSG00000178538	0	1	0	0	0	1
## ENSG00000104388	2044	2450	2819	2327	2728	3023
## ENSG00000171316	17	22	20	33	31	49

## ENSG00000177182	2	2	3	3	2	1
## ENSG00000198363	15829	18364	23099	15701	18362	21028
## ENSG00000185942	0	0	0	0	0	0
## ENSG00000137563	337	417	432	167	196	235
## ENSG00000137561	0	0	0	0	0	0
## ENSG00000185728	1471	1560	2120	1849	2178	2529
## ENSG00000180828	0	0	0	0	0	0
## ENSG00000172817	0	0	1	0	0	0
## ENSG00000104442	606	689	933	604	686	819
## ENSG00000066855	401	487	610	556	673	717
## ENSG00000205268	149	158	190	96	124	151
## ENSG00000147570	2	7	0	3	0	1
## ENSG00000147573	247	269	355	149	147	172
## ENSG00000147571	4	6	5	22	28	34
## ENSG00000179041	490	595	724	599	656	707
## ENSG00000147576	15	30	30	23	33	26
## ENSG00000169085	2	6	5	3	1	6
## ENSG00000185697	605	691	912	179	265	232
## ENSG00000175073	505	529	682	640	638	794
## ENSG00000270024	0	0	0	0	0	0
## ENSG00000213865	13	12	15	18	18	18
## ENSG00000278888	1	2	3	2	3	4
## ENSG00000104205	42	67	82	56	67	68
## ENSG00000178460	2	4	8	1	4	9
## ENSG00000261787	0	0	0	1	0	0
## ENSG00000178125	0	1	1	1	0	0
## ENSG00000121022	509	610	690	615	693	788
## ENSG00000104218	198	213	244	396	490	496
## ENSG00000066777	1118	1238	1550	1193	1333	1610
## ENSG00000165078	5	7	10	3	2	4
## ENSG00000046889	2	0	0	0	0	1
## ENSG00000165084	4	4	6	9	10	3
## ENSG00000137573	528	617	887	227	287	236
## ENSG00000137571	2	1	7	11	7	7
## ENSG00000147596	0	0	0	0	0	0
## ENSG00000140396	445	514	584	387	437	498
## ENSG00000067167	6118	7069	8625	5768	7002	7558
## ENSG00000147592	79	114	125	81	100	121
## ENSG00000221947	2	1	0	1	1	4
## ENSG00000104313	0	0	0	0	0	0
## ENSG00000178860	159	206	250	501	474	694
## ENSG00000104321	1058	1291	1676	12944	12826	18725
## ENSG00000182674	0	0	0	0	0	0
## ENSG00000147601	308	320	443	382	516	580
## ENSG00000164764	0	8	4	6	4	5
## ENSG00000274443	0	0	0	0	0	0
## ENSG00000147604	6804	7549	9417	6985	7992	8910
## ENSG00000121039	651	714	915	1185	1390	1572
## ENSG00000040341	350	404	476	262	319	423
## ENSG00000258677	0	0	0	0	0	0
## ENSG00000104343	289	345	430	432	507	593
## ENSG00000154582	861	1040	1147	921	1213	1280
## ENSG00000175606	218	267	311	214	235	268
## ENSG00000154589	76	88	118	95	123	124

## ENSG00000104369	0	1	0	0	3	0
## ENSG00000104381	38	51	49	28	33	33
## ENSG00000137558	0	0	0	0	0	0
## ENSG00000121005	18	26	35	25	20	19
## ENSG00000164749	0	0	0	0	0	0
## ENSG00000091656	683	771	938	346	369	374
## ENSG00000164751	315	388	436	231	285	325
## ENSG00000171033	239	285	371	407	477	582
## ENSG00000104427	119	126	189	287	366	433
## ENSG00000104432	4	1	5	4	9	5
## ENSG00000104435	1	2	1	0	3	1
## ENSG00000164683	28	39	51	250	240	318
## ENSG00000147586	38	65	59	38	52	50
## ENSG00000276418	0	0	0	0	0	0
## ENSG00000076554	0	0	0	1	0	0
## ENSG00000205189	183	226	251	311	334	391
## ENSG00000164684	1	1	0	1	0	2
## ENSG00000076641	303	355	415	1417	1564	1973
## ENSG00000164687	178	188	262	112	145	142
## ENSG00000147588	0	0	0	0	0	0
## ENSG00000205186	0	0	0	0	0	0
## ENSG00000170323	29	32	48	4	4	3
## ENSG00000197416	0	0	0	0	0	0
## ENSG00000133731	258	331	342	455	529	621
## ENSG00000253598	4	0	2	3	3	5
## ENSG00000104231	194	219	272	189	200	196
## ENSG00000164695	0	1	1	0	2	1
## ENSG00000104497	105	100	163	207	222	282
## ENSG00000184672	0	0	0	0	0	0
## ENSG00000133739	67	63	95	51	79	79
## ENSG00000133740	72	57	108	61	59	76
## ENSG00000176731	114	157	165	144	179	197
## ENSG00000185015	15	19	24	19	11	27
## ENSG00000133742	0	0	0	0	0	0
## ENSG00000164879	0	0	0	0	0	0
## ENSG00000104267	0	0	0	1	0	1
## ENSG00000147614	0	0	0	7	8	8
## ENSG00000147613	0	0	0	0	0	0
## ENSG00000164893	0	0	0	0	0	0
## ENSG00000123124	501	580	722	600	679	761
## ENSG00000176623	396	486	587	463	584	661
## ENSG00000085719	1496	1800	2267	1456	1738	2072
## ENSG00000170289	0	0	0	0	0	0
## ENSG00000176571	0	0	0	0	0	0
## ENSG00000176566	0	0	0	0	0	0
## ENSG00000156103	494	568	683	1402	1490	1884
## ENSG00000104312	407	555	626	1048	1255	1561
## ENSG00000164823	231	266	352	375	407	593
## ENSG00000104320	788	919	1034	856	1046	1252
## ENSG00000104325	597	741	874	869	940	1242
## ENSG00000104327	0	0	0	2	0	1
## ENSG00000180694	347	374	456	206	212	208
## ENSG00000123119	24	36	30	12	19	20
## ENSG00000253250	33	31	49	12	21	18

## ENSG00000155099	249	303	344	269	330	361
## ENSG00000155100	222	278	331	80	87	112
## ENSG00000214954	0	2	2	5	6	6
## ENSG00000147606	0	0	0	0	1	0
## ENSG00000079102	81	76	123	70	70	95
## ENSG00000205133	253	266	310	276	358	375
## ENSG00000188343	243	292	348	220	262	279
## ENSG00000183808	217	251	282	231	237	288
## ENSG00000164953	78	86	109	158	161	193
## ENSG00000164951	414	512	621	529	638	740
## ENSG00000079112	0	0	1	1	1	3
## ENSG00000164949	394	370	466	1021	931	1288
## ENSG00000197275	23	28	36	13	7	8
## ENSG00000265817	0	0	0	0	0	0
## ENSG00000164944	1193	1357	1672	983	1123	1270
## ENSG00000104413	0	0	0	0	0	0
## ENSG00000156162	395	488	619	414	458	617
## ENSG00000164941	399	427	601	339	423	444
## ENSG00000175305	27	28	40	13	17	11
## ENSG00000156170	78	86	107	87	107	98
## ENSG00000164938	375	434	527	2114	2440	2955
## ENSG00000175895	194	281	317	178	234	273
## ENSG00000156172	28	31	41	19	21	23
## ENSG00000156466	133	155	146	208	274	247
## ENSG00000156467	1332	1528	1815	1650	1785	2078
## ENSG00000156469	109	120	136	123	142	184
## ENSG00000156471	1677	2013	2542	2393	2684	3161
## ENSG00000169439	1079	1270	1551	3138	3679	4165
## ENSG00000104324	295	346	477	537	597	644
## ENSG00000180543	466	522	659	595	632	753
## ENSG00000147649	2396	2962	3577	2738	3119	3759
## ENSG00000104341	1537	1696	2264	1883	2024	2406
## ENSG00000132561	386	435	556	257	268	302
## ENSG00000156482	2373	2667	3187	2388	2728	2889
## ENSG00000177459	10	17	10	9	9	9
## ENSG00000132541	145	157	192	141	154	167
## ENSG00000104356	472	587	735	373	456	511
## ENSG00000104361	121	150	141	156	196	220
## ENSG00000104375	171	218	273	277	342	381
## ENSG00000156486	2	2	0	8	12	12
## ENSG00000164920	20	39	44	133	131	153
## ENSG00000132549	804	1004	1062	1615	1920	2084
## ENSG00000164919	574	642	819	844	877	999
## ENSG00000132554	0	0	0	0	0	0
## ENSG00000156509	4	9	11	3	2	2
## ENSG00000147669	285	283	420	209	243	299
## ENSG00000104450	25	24	35	45	62	62
## ENSG00000034677	434	441	603	499	563	663
## ENSG00000186106	157	173	198	276	264	347
## ENSG00000174226	0	0	0	0	0	1
## ENSG00000070756	10575	11401	14649	8638	10007	11145
## ENSG00000164924	10780	12888	15705	4927	5979	6612
## ENSG00000120963	321	355	509	520	554	649
## ENSG00000083307	0	0	0	0	0	0

## ENSG00000104490	2	1	0	2	1	0
## ENSG00000048392	1019	1162	1398	919	996	1270
## ENSG00000104517	2162	2328	2917	2856	3258	3661
## ENSG00000155087	0	0	0	0	0	0
## ENSG00000155090	838	961	1145	841	1015	1128
## ENSG00000155096	2583	3041	3793	2106	2448	2782
## ENSG00000155097	848	1038	1248	1879	2072	2571
## ENSG00000164929	469	528	730	248	313	287
## ENSG00000164930	2039	2232	2857	2458	3021	3139
## ENSG00000164932	2197	2514	2965	1881	2553	2440
## ENSG00000164933	610	799	962	632	765	825
## ENSG00000164934	806	1064	1198	787	1021	1096
## ENSG00000176406	2	5	4	4	6	8
## ENSG00000147647	0	0	0	0	0	1
## ENSG00000164935	3	0	3	8	3	12
## ENSG00000147650	853	1024	1356	815	898	1164
## ENSG00000169946	362	453	578	232	337	333
## ENSG00000164830	468	471	647	768	1016	979
## ENSG00000174429	0	0	0	0	0	0
## ENSG00000154188	613	692	833	317	381	365
## ENSG00000147655	6	2	2	2	3	3
## ENSG00000104408	2136	2484	3055	2824	3091	3585
## ENSG00000104412	292	322	383	309	359	389
## ENSG00000164841	0	0	0	0	0	0
## ENSG00000174417	0	0	0	0	0	0
## ENSG00000120526	421	557	638	430	536	543
## ENSG00000120533	546	615	763	862	967	1104
## ENSG00000205038	0	0	0	0	0	0
## ENSG00000147654	89	101	117	64	76	70
## ENSG00000147642	14	11	17	1	2	5
## ENSG00000164794	0	0	0	0	0	0
## ENSG00000164796	0	0	0	4	2	7
## ENSG00000104447	220	254	330	394	406	525
## ENSG00000147677	1926	2221	2711	1998	2317	2665
## ENSG00000147679	195	204	288	159	195	221
## ENSG00000164754	1847	2119	2787	1601	1840	2224
## ENSG00000281527	0	1	1	3	2	2
## ENSG00000205002	1	0	0	0	1	0
## ENSG00000164756	0	0	0	0	0	0
## ENSG00000164758	48	44	56	47	48	52
## ENSG00000182197	5141	5990	7533	7563	8540	9973
## ENSG00000177570	64	63	78	38	45	46
## ENSG00000164761	2265	2517	3175	7652	7750	9704
## ENSG00000184374	147	151	193	698	585	810
## ENSG00000147676	2	2	1	5	10	12
## ENSG00000136999	85	81	109	318	300	416
## ENSG00000136960	95	67	139	136	153	166
## ENSG00000064313	655	770	979	860	1020	1104
## ENSG00000136982	61	95	98	35	63	60
## ENSG00000155792	10	13	15	23	29	20
## ENSG00000187955	122	125	178	213	292	312
## ENSG00000172172	295	385	435	251	318	378
## ENSG00000172167	53	55	62	33	31	20
## ENSG00000172164	197	227	299	171	180	250

## ENSG00000170961	798	982	1295	454	504	588
## ENSG00000178764	71	85	124	120	126	151
## ENSG00000136986	799	969	1122	940	981	1089
## ENSG00000156787	71	90	109	47	60	71
## ENSG00000147689	0	0	0	0	0	0
## ENSG00000189376	35	51	48	59	54	57
## ENSG00000259305	2	1	1	2	7	2
## ENSG00000165156	611	674	809	413	492	528
## ENSG00000156802	417	551	675	170	231	210
## ENSG00000156795	92	107	114	76	87	90
## ENSG00000156804	143	171	185	550	559	626
## ENSG00000175946	5	9	11	4	6	4
## ENSG00000104537	0	0	0	0	0	0
## ENSG00000176853	1010	1204	1411	2062	2204	2763
## ENSG00000214814	4	2	3	24	21	20
## ENSG00000164983	385	488	562	609	694	855
## ENSG00000183665	129	145	187	155	201	200
## ENSG00000170881	373	468	574	598	640	831
## ENSG00000147687	166	166	182	185	192	236
## ENSG00000147684	543	653	824	721	716	858
## ENSG00000170873	68	58	73	94	102	125
## ENSG00000180938	2	3	3	1	4	5
## ENSG00000104549	811	931	1295	1481	1597	1959
## ENSG00000164961	931	1116	1401	731	938	949
## ENSG00000156831	158	167	199	225	248	309
## ENSG00000173334	290	302	379	1775	1793	2250
## ENSG00000168672	14	9	17	8	10	9
## ENSG00000212993	0	1	0	0	0	0
## ENSG00000279524	0	0	0	0	0	0
## ENSG00000136997	682	745	967	827	1029	1149
## ENSG00000280151	0	0	0	0	0	0
## ENSG00000147697	0	0	0	0	0	0
## ENSG00000153310	392	535	612	451	526	622
## ENSG00000153317	2303	2679	3318	2608	2989	3417
## ENSG00000155897	0	1	0	3	2	3
## ENSG00000132294	1437	1674	2121	2830	3064	3923
## ENSG00000253117	0	0	0	0	0	0
## ENSG00000258417	0	0	0	0	0	0
## ENSG00000132297	0	0	0	0	0	0
## ENSG00000184156	0	6	5	1	2	2
## ENSG00000129295	2	1	1	2	6	4
## ENSG00000165071	7	5	11	0	1	4
## ENSG00000129292	802	925	1182	1058	1331	1561
## ENSG00000042832	4	6	4	11	22	26
## ENSG00000155926	1	0	0	7	1	7
## ENSG00000104415	40	44	60	81	82	95
## ENSG00000104419	706	837	1021	748	825	945
## ENSG00000008513	1608	1836	2212	2533	2871	3275
## ENSG00000066827	166	151	229	222	214	248
## ENSG00000131773	197	234	270	142	154	188
## ENSG00000147724	0	0	0	0	0	0
## ENSG00000169436	2	8	6	4	6	4
## ENSG00000169427	0	0	1	0	0	1
## ENSG00000167632	207	227	301	181	216	260

## ENSG00000104472	267	373	427	241	314	337
## ENSG00000123908	1110	1502	1581	3445	3706	4566
## ENSG00000169398	1585	1822	2257	853	1011	1155
## ENSG00000281855	0	0	0	0	0	0
## ENSG00000105339	728	899	1113	662	817	893
## ENSG00000022567	132	159	211	163	188	222
## ENSG00000204882	15	15	14	6	5	6
## ENSG00000184489	7	6	11	4	11	4
## ENSG00000171045	29	30	34	70	85	90
## ENSG00000181790	0	0	1	2	5	2
## ENSG00000198576	5	6	8	12	23	14
## ENSG00000234616	334	365	406	294	369	427
## ENSG00000167653	0	2	1	1	1	0
## ENSG00000160886	22	26	39	17	22	22
## ENSG00000130193	44	54	50	63	71	91
## ENSG00000126233	0	0	0	0	0	0
## ENSG00000197353	0	0	0	0	0	0
## ENSG00000180155	91	85	106	189	221	211
## ENSG00000167656	0	0	0	0	0	0
## ENSG00000104499	0	0	0	0	0	0
## ENSG00000160882	0	0	0	0	0	0
## ENSG00000179142	0	0	0	0	0	0
## ENSG00000160932	1702	1954	2499	2218	2562	2711
## ENSG00000261667	0	0	0	0	0	0
## ENSG00000176956	0	0	0	0	0	0
## ENSG00000277494	0	0	0	0	0	0
## ENSG00000181638	122	112	142	163	174	214
## ENSG00000264668	0	0	0	0	0	0
## ENSG00000250571	54	74	61	91	110	116
## ENSG00000185730	56	47	100	100	97	96
## ENSG00000184428	129	163	214	143	147	209
## ENSG00000158106	3	1	2	4	1	1
## ENSG00000182759	0	1	1	1	0	2
## ENSG00000014164	278	310	444	260	273	332
## ENSG00000104518	163	129	181	137	129	168
## ENSG00000204839	22	19	24	61	71	80
## ENSG00000147813	89	75	119	135	139	186
## ENSG00000104529	1047	1123	1441	1044	1121	1288
## ENSG00000179886	137	163	197	205	207	300
## ENSG00000104524	196	240	337	195	199	194
## ENSG00000104522	699	813	1033	720	838	935
## ENSG00000183309	422	412	549	420	418	568
## ENSG00000181135	114	117	172	234	259	288
## ENSG00000255181	0	0	0	0	0	0
## ENSG00000181085	0	1	0	0	0	3
## ENSG00000180921	20	28	21	70	73	76
## ENSG00000180900	1176	1347	1804	1145	1301	1502
## ENSG00000179950	1515	1872	2382	1833	1925	2291
## ENSG00000185189	449	481	624	424	589	627
## ENSG00000261150	7	8	13	1	5	3
## ENSG00000178209	17462	19347	26228	13618	14486	17272
## ENSG00000178685	90	93	123	119	137	160
## ENSG00000178719	2243	2493	3380	4784	5082	6351
## ENSG00000186583	0	0	0	0	0	0



## ENSG00000178814	30	40	57	26	31	40
## ENSG00000178896	141	179	197	217	261	315
## ENSG00000197858	1281	1410	1822	1630	1666	2028
## ENSG00000179091	1218	1331	1673	1126	1263	1563
## ENSG00000179526	468	509	683	595	637	808
## ENSG00000179632	982	1124	1313	1790	1795	2266
## ENSG00000179698	1	3	6	2	1	2
## ENSG00000235173	313	352	463	289	262	337
## ENSG00000179832	386	437	497	642	721	861
## ENSG00000261236	1134	1187	1696	707	776	921
## ENSG00000260428	4	10	9	14	17	13
## ENSG00000185122	1026	1061	1434	965	1043	1248
## ENSG00000185000	227	262	325	398	431	518
## ENSG00000261678	0	1	1	2	4	1
## ENSG00000261587	0	0	0	1	0	2
## ENSG00000271698	1	0	0	2	1	2
## ENSG00000185803	842	919	1190	1539	1599	1972
## ENSG00000182325	90	95	149	94	103	103
## ENSG00000173137	76	98	94	85	93	124
## ENSG00000071894	1451	1552	2140	1996	2208	2584
## ENSG00000147804	36	30	49	39	34	54
## ENSG00000160948	645	708	904	742	834	961
## ENSG00000160949	215	256	328	166	162	194
## ENSG00000187954	415	427	601	683	697	871
## ENSG00000167702	61	68	99	101	115	135
## ENSG00000160973	0	1	0	1	1	0
## ENSG00000160972	118	158	180	154	175	216
## ENSG00000167701	0	3	7	14	7	7
## ENSG00000167700	114	126	157	164	169	197
## ENSG00000160957	183	255	293	112	115	148
## ENSG00000160959	309	330	419	313	337	423
## ENSG00000254402	0	0	1	0	0	0
## ENSG00000213563	161	182	232	276	267	352
## ENSG00000147799	120	128	184	120	95	150
## ENSG00000198169	159	199	230	349	393	461
## ENSG00000196378	28	41	39	37	38	43
## ENSG00000161016	9993	10801	14098	9740	10370	12227
## ENSG00000197363	67	71	80	144	130	166
## ENSG00000147789	126	133	176	181	207	254
## ENSG00000170619	279	298	378	576	584	753
## ENSG00000196150	57	65	75	114	86	127
## ENSG00000170631	91	110	110	86	119	132
## ENSG00000182307	468	557	731	794	908	1032
## ENSG00000181404	46	54	76	85	93	88
## ENSG00000170122	0	2	2	8	2	6
## ENSG00000172785	124	159	184	144	153	211
## ENSG00000183784	0	0	0	1	0	0
## ENSG00000107099	0	0	2	3	7	5
## ENSG00000107104	570	621	819	308	379	413
## ENSG00000137090	0	0	2	0	1	1
## ENSG00000064218	1	0	0	3	1	1
## ENSG00000173253	0	0	0	0	0	0
## ENSG00000080503	762	791	1004	691	823	847
## ENSG00000147852	211	232	315	49	77	59

## ENSG00000168263	2	2	3	0	0	0
## ENSG00000080608	597	721	902	663	790	846
## ENSG00000080298	52	44	50	78	74	100
## ENSG00000279745	0	0	0	0	0	0
## ENSG00000107249	321	377	428	367	457	516
## ENSG00000106688	99	75	107	46	67	65
## ENSG00000106686	2	3	7	4	4	3
## ENSG00000205808	118	130	170	87	92	91
## ENSG00000106993	237	287	311	385	361	472
## ENSG00000147853	764	921	1118	1310	1567	1903
## ENSG00000120158	141	153	195	203	189	248
## ENSG00000096968	209	217	299	311	420	452
## ENSG00000120210	0	0	0	0	0	0
## ENSG00000120211	0	2	0	1	1	1
## ENSG00000107014	0	0	0	0	0	0
## ENSG00000107018	0	0	0	0	0	0
## ENSG00000107020	109	121	160	112	119	129
## ENSG00000120217	136	164	252	64	77	88
## ENSG00000197646	474	540	690	136	192	162
## ENSG00000107036	1070	1269	1555	1872	2195	2470
## ENSG00000099219	176	190	272	411	432	571
## ENSG00000183354	303	344	425	499	574	650
## ENSG00000120215	2	5	9	3	6	7
## ENSG00000137040	650	810	972	561	707	775
## ENSG00000137033	3	7	3	9	16	17
## ENSG00000170777	0	0	0	0	0	0
## ENSG00000147854	602	688	903	697	783	836
## ENSG00000178445	1	8	5	14	15	10
## ENSG00000274527	0	0	0	0	0	0
## ENSG00000107077	80	91	130	91	118	135
## ENSG00000137038	258	299	351	359	387	470
## ENSG00000153707	11	14	12	12	21	32
## ENSG00000107165	38	40	47	102	111	142
## ENSG00000153714	225	251	296	466	492	642
## ENSG00000107186	851	946	1072	1068	1134	1352
## ENSG00000147862	42	61	57	6	7	3
## ENSG00000175893	229	269	300	172	177	223
## ENSG00000147869	0	0	0	0	0	0
## ENSG00000164946	2	0	0	0	1	2
## ENSG00000155158	171	202	255	188	258	253
## ENSG00000164975	766	809	1025	1066	1137	1410
## ENSG00000164985	743	883	1120	282	360	383
## ENSG00000164989	22	25	53	32	42	35
## ENSG00000205549	0	0	1	0	0	0
## ENSG00000173068	675	772	908	298	429	349
## ENSG00000044459	173	226	263	101	141	124
## ENSG00000107295	0	1	4	0	0	0
## ENSG00000178031	592	667	1008	130	155	141
## ENSG00000155875	0	0	0	0	2	0
## ENSG00000155876	1517	1761	2349	1757	2061	2343
## ENSG00000147874	398	491	611	279	303	356
## ENSG00000147872	871	1015	1278	1145	1302	1341
## ENSG00000137145	445	595	640	729	839	972
## ENSG00000137154	10502	12286	14848	10617	11867	13526

## ENSG00000177076	24	25	23	157	178	208
## ENSG00000155886	0	0	0	0	0	0
## ENSG00000171843	310	310	415	340	384	423
## ENSG00000188352	1045	1189	1548	500	612	642
## ENSG00000188921	59	79	108	32	35	31
## ENSG00000171855	0	0	0	0	0	0
## ENSG00000177047	0	0	0	0	0	0
## ENSG00000137080	0	0	0	0	0	0
## ENSG00000236637	0	0	0	0	0	0
## ENSG00000214042	0	0	0	0	0	0
## ENSG00000186803	0	0	0	0	0	0
## ENSG00000234829	0	0	0	0	0	0
## ENSG00000147885	0	0	0	0	0	0
## ENSG00000228083	0	0	0	0	0	0
## ENSG00000147873	0	0	0	0	0	0
## ENSG00000198642	956	1155	1331	1370	1556	1808
## ENSG00000120235	0	0	0	0	0	0
## ENSG00000233816	0	0	0	0	0	0
## ENSG00000188379	0	0	0	0	0	0
## ENSG00000120242	0	0	0	0	0	0
## ENSG00000197919	0	1	1	0	3	3
## ENSG00000184995	20	13	22	31	38	41
## ENSG00000099810	534	649	737	1021	1011	1315
## ENSG00000264545	0	0	0	0	0	0
## ENSG00000147889	429	441	534	490	546	691
## ENSG00000147883	327	371	430	1778	1677	2311
## ENSG00000176399	2	3	2	15	14	12
## ENSG00000107105	0	0	0	0	0	1
## ENSG00000205442	0	0	0	0	0	0
## ENSG00000198680	88	124	98	163	166	221
## ENSG00000120159	212	243	282	137	200	213
## ENSG00000137055	769	844	1035	1019	1269	1439
## ENSG00000096872	136	157	192	185	223	251
## ENSG00000184434	0	1	1	0	0	0
## ENSG00000120156	218	246	349	843	1015	1209
## ENSG00000120160	0	0	0	0	0	0
## ENSG00000120162	3	0	0	4	7	6
## ENSG00000147896	0	0	0	0	0	0
## ENSG00000147894	39	48	53	85	129	147
## ENSG00000174482	0	0	0	0	0	0
## ENSG00000122729	3242	3529	4340	1541	1738	1929
## ENSG00000107201	271	364	436	592	624	848
## ENSG00000197579	369	444	540	594	679	776
## ENSG00000165264	387	450	531	470	563	585
## ENSG00000241043	14	20	24	15	10	10
## ENSG00000122728	0	1	0	2	0	0
## ENSG00000188133	0	0	0	0	0	2
## ENSG00000137074	316	356	486	394	402	456
## ENSG00000086061	2688	2966	3705	3819	4195	5265
## ENSG00000122692	913	1090	1319	1087	1286	1488
## ENSG00000086062	1618	1852	2383	1575	1843	2015
## ENSG00000122711	0	1	0	0	0	1
## ENSG00000107262	161	220	274	384	412	476
## ENSG00000086065	909	992	1187	1481	1573	1907

## ENSG00000086102	554	651	796	538	624	624
## ENSG00000165269	0	0	0	0	0	1
## ENSG00000165272	83	82	113	57	75	91
## ENSG00000165271	1605	1885	2517	1354	1607	1789
## ENSG00000230453	82	106	130	27	21	33
## ENSG00000010438	83	86	123	106	95	116
## ENSG00000107341	1291	1647	2057	1813	1933	2385
## ENSG00000137073	720	796	985	550	608	659
## ENSG00000198876	424	473	544	519	575	692
## ENSG00000165006	713	858	1044	885	940	1134
## ENSG00000186638	45	77	108	19	17	34
## ENSG00000164978	178	211	248	209	235	264
## ENSG00000164976	64	96	114	49	70	70
## ENSG00000164972	0	0	0	2	0	2
## ENSG00000164970	498	590	776	722	832	1040
## ENSG00000122735	0	0	0	0	0	0
## ENSG00000168913	0	1	1	0	1	0
## ENSG00000122756	0	1	0	1	1	1
## ENSG00000164967	90	87	115	77	81	94
## ENSG00000137100	601	710	877	568	657	746
## ENSG00000205143	0	1	2	1	2	3
## ENSG00000147955	1045	1215	1598	1158	1270	1495
## ENSG00000213930	65	79	78	61	89	85
## ENSG00000258728	0	0	0	0	0	0
## ENSG00000137070	95	102	129	87	126	154
## ENSG00000213927	0	0	0	0	0	0
## ENSG00000187186	1	2	2	3	10	9
## ENSG00000172724	0	0	0	0	0	0
## ENSG00000137077	0	0	0	0	0	0
## ENSG00000205108	2	1	1	3	1	2
## ENSG00000122733	0	1	0	1	1	1
## ENSG00000137094	261	286	365	423	466	567
## ENSG00000174038	0	0	0	0	0	0
## ENSG00000165280	7657	8788	11167	9860	10968	13117
## ENSG00000221829	135	197	224	74	99	115
## ENSG00000165282	360	425	517	452	446	577
## ENSG00000165283	900	1043	1349	951	1014	1358
## ENSG00000005238	688	873	1028	574	682	738
## ENSG00000198722	686	711	982	617	684	815
## ENSG00000198853	1202	1385	1889	1736	1812	2312
## ENSG00000215187	1	0	0	0	1	1
## ENSG00000107140	274	270	334	288	310	365
## ENSG00000137101	2	0	1	2	6	5
## ENSG00000137078	0	0	0	0	0	0
## ENSG00000159884	53	53	54	58	70	82
## ENSG00000137135	19	17	42	14	14	17
## ENSG00000107159	9	2	6	3	3	9
## ENSG00000198467	23119	26102	32549	20863	23562	25456
## ENSG00000137076	19325	21360	28046	17432	19305	21797
## ENSG00000107175	1284	1566	1990	1529	1720	1902
## ENSG00000070610	693	749	957	1004	1054	1332
## ENSG00000107185	769	942	1175	1093	1159	1452
## ENSG00000215183	0	0	0	0	0	0
## ENSG00000159899	383	455	601	494	542	657

## ENSG00000137098	2	2	1	3	3	4
## ENSG00000137133	78	97	105	49	56	58
## ENSG00000137103	164	205	264	273	286	327
## ENSG00000204930	0	0	0	0	0	0
## ENSG00000168828	0	0	0	1	0	1
## ENSG00000196196	9	25	31	6	13	9
## ENSG00000122718	0	0	0	0	0	0
## ENSG00000122707	2410	2552	3227	1298	1596	1656
## ENSG00000122694	509	583	706	455	603	679
## ENSG00000185972	10	9	14	5	0	5
## ENSG00000122705	2056	2530	3186	2975	3195	3893
## ENSG00000159921	454	511	657	580	646	774
## ENSG00000137075	310	328	450	574	547	747
## ENSG00000165304	348	425	536	51	102	75
## ENSG00000196092	0	0	0	0	0	0
## ENSG00000147905	263	315	368	316	371	377
## ENSG00000137106	1091	1095	1439	996	1108	1268
## ENSG00000168795	126	161	189	157	228	257
## ENSG00000137054	420	553	646	289	374	364
## ENSG00000147912	86	87	102	166	170	218
## ENSG00000256966	1	0	0	0	0	0
## ENSG00000175768	73	77	102	67	89	73
## ENSG00000255872	0	0	0	0	0	0
## ENSG00000070601	0	1	0	0	0	0
## ENSG00000165275	79	74	101	102	84	108
## ENSG00000107371	176	191	239	181	191	276
## ENSG00000122741	556	653	774	626	816	996
## ENSG00000122696	237	244	329	187	219	232
## ENSG00000107338	178	248	294	282	321	361
## ENSG00000137124	551	598	772	127	170	159
## ENSG00000137142	0	1	0	0	3	1
## ENSG00000273170	0	0	0	0	0	0
## ENSG00000180071	0	0	0	0	0	0
## ENSG00000106714	6	19	16	14	20	14
## ENSG00000204849	0	0	0	0	0	0
## ENSG00000183148	0	1	0	0	0	0
## ENSG00000273514	0	1	0	0	0	0
## ENSG00000215126	27	29	32	26	36	36
## ENSG00000154529	15	18	24	13	19	13
## ENSG00000185775	0	0	0	0	0	0
## ENSG00000277737	0	0	0	0	0	0
## ENSG00000276581	0	0	0	0	0	0
## ENSG00000276040	0	0	0	0	0	0
## ENSG00000172014	0	0	0	0	0	0
## ENSG00000204779	0	0	0	0	0	0
## ENSG00000147996	29	37	49	46	39	58
## ENSG00000184659	0	0	0	0	0	0
## ENSG00000276203	0	0	0	0	0	0
## ENSG00000274349	40	33	41	31	25	34
## ENSG00000275969	0	0	0	0	0	0
## ENSG00000260691	1	1	0	0	0	0
## ENSG00000196873	10	14	23	19	23	30
## ENSG00000187559	0	0	0	0	0	0
## ENSG00000154330	215	240	299	103	126	131

## ENSG00000181778	0	4	2	0	0	0
## ENSG00000107242	0	0	0	0	1	0
## ENSG00000187866	234	269	357	196	205	221
## ENSG00000165059	0	0	0	0	0	0
## ENSG00000165060	126	137	209	95	102	143
## ENSG00000119139	1167	1308	1821	316	420	492
## ENSG00000135063	0	0	0	2	3	0
## ENSG00000107282	267	323	379	322	343	419
## ENSG00000188647	901	974	1210	1068	1245	1456
## ENSG00000204711	0	0	0	0	0	0
## ENSG00000165072	186	193	297	42	44	42
## ENSG00000198887	630	761	946	876	1029	1191
## ENSG00000119138	168	208	259	662	754	1063
## ENSG00000083067	1	2	2	1	5	4
## ENSG00000135048	2551	3098	3875	5397	5949	7114
## ENSG00000107362	141	172	221	283	283	342
## ENSG00000281760	0	0	0	0	0	0
## ENSG00000155621	98	116	133	142	140	126
## ENSG00000204669	0	0	0	0	0	0
## ENSG00000119125	0	1	0	0	0	0
## ENSG00000107372	2451	2911	3621	4596	5542	6348
## ENSG00000165091	0	0	0	0	0	0
## ENSG00000165092	2	5	3	4	4	2
## ENSG00000135046	5294	6140	7879	2302	2645	2892
## ENSG00000198963	0	0	0	2	0	0
## ENSG00000119121	1	0	2	1	2	0
## ENSG00000135045	108	112	138	52	66	81
## ENSG00000156017	277	316	448	385	502	577
## ENSG00000106733	68	67	77	52	59	63
## ENSG00000134996	372	461	556	393	447	536
## ENSG00000099139	140	166	197	301	383	375
## ENSG00000135002	420	474	584	746	837	1008
## ENSG00000187210	149	155	196	31	40	38
## ENSG00000106772	176	214	218	38	45	53
## ENSG00000204612	0	0	0	0	0	0
## ENSG00000197969	958	963	1250	798	1002	1081
## ENSG00000156049	0	0	1	1	3	3
## ENSG00000156052	973	1177	1411	987	1227	1336
## ENSG00000148019	340	446	509	220	233	225
## ENSG00000135069	2194	2307	2809	297	446	289
## ENSG00000106829	725	808	1032	991	1205	1427
## ENSG00000196781	541	650	810	644	669	792
## ENSG00000189357	0	0	0	0	0	0
## ENSG00000186788	0	0	0	0	0	0
## ENSG00000214929	0	0	0	0	0	0
## ENSG00000165105	2	3	2	3	5	6
## ENSG00000172159	0	0	0	1	1	0
## ENSG00000148057	10	11	13	3	6	5
## ENSG00000135018	2278	2622	3353	2427	2826	3350
## ENSG00000165113	10	17	17	6	8	11
## ENSG00000165115	20	25	35	32	50	63
## ENSG00000165118	45	53	68	53	66	75
## ENSG00000165119	7103	8579	10641	7614	8847	10245
## ENSG00000178966	131	156	185	71	95	86

## ENSG00000197506	34	40	50	5	12	6
## ENSG00000148053	0	1	0	1	1	0
## ENSG00000135049	126	137	176	110	133	120
## ENSG00000135040	327	359	477	349	409	499
## ENSG00000135052	1220	1363	1751	1347	1531	1735
## ENSG00000187753	1	0	0	1	3	0
## ENSG00000135070	238	297	392	459	501	628
## ENSG00000083223	549	706	901	1317	1398	1752
## ENSG00000180447	42	60	59	11	18	10
## ENSG00000196730	4	4	10	7	14	14
## ENSG00000135047	1167	1293	1729	1785	1900	2214
## ENSG00000177992	1	1	4	3	2	3
## ENSG00000156345	73	81	114	85	88	108
## ENSG00000106723	1741	2019	2584	1987	2298	2694
## ENSG00000130045	45	53	61	27	36	50
## ENSG00000186354	13	12	14	8	11	13
## ENSG00000213694	1143	1333	1627	1317	1625	1769
## ENSG00000148082	597	728	812	1453	1562	1957
## ENSG00000123975	536	577	722	267	317	352
## ENSG00000187742	351	405	511	896	996	1258
## ENSG00000187764	57	67	63	124	169	188
## ENSG00000130222	3	5	13	4	5	15
## ENSG00000165023	0	0	0	0	1	0
## ENSG00000165025	0	0	0	0	0	0
## ENSG00000148090	106	114	154	219	207	239
## ENSG00000165030	428	549	616	834	993	1125
## ENSG00000169071	166	161	208	141	188	170
## ENSG00000090054	977	1167	1489	1369	1574	1892
## ENSG00000196305	5917	6469	8138	5983	7061	7652
## ENSG00000279007	1	0	2	2	0	0
## ENSG00000198000	389	452	578	498	543	634
## ENSG00000188312	41	46	63	14	18	23
## ENSG00000106809	0	1	0	0	1	0
## ENSG00000127083	0	0	0	0	0	0
## ENSG00000106819	4	1	6	1	0	0
## ENSG00000106823	6	6	3	2	1	0
## ENSG00000127080	106	100	149	97	130	127
## ENSG00000185963	1137	1327	1678	1273	1383	1678
## ENSG00000127081	56	65	71	60	71	81
## ENSG00000127084	0	0	0	0	0	0
## ENSG00000157303	2	2	1	0	0	1
## ENSG00000165233	327	348	412	453	456	574
## ENSG00000131669	392	399	520	491	553	707
## ENSG00000165238	0	0	0	3	2	0
## ENSG00000204352	0	2	0	1	1	1
## ENSG00000188938	262	288	333	334	325	429
## ENSG00000048828	2896	3280	4074	2431	2736	3192
## ENSG00000197724	475	555	723	673	724	865
## ENSG00000131668	0	0	0	0	0	0
## ENSG00000158079	73	105	121	95	93	101
## ENSG00000175787	17	18	20	11	5	15
## ENSG00000130950	0	0	0	0	0	0
## ENSG00000148110	876	1017	1306	759	906	976
## ENSG00000130957	0	0	0	0	0	0

## ENSG00000165140	0	0	0	0	0	0
## ENSG00000148120	288	342	412	184	212	223
## ENSG00000158169	161	177	234	156	197	199
## ENSG00000185920	199	183	240	159	174	208
## ENSG00000182150	239	321	360	276	314	358
## ENSG00000275465	0	0	0	0	0	0
## ENSG00000130948	2	0	0	0	1	1
## ENSG00000130958	224	262	327	120	143	168
## ENSG00000165244	70	70	103	8	14	5
## ENSG00000130956	314	334	485	355	389	395
## ENSG00000081377	343	427	539	199	243	273
## ENSG00000158122	140	123	197	94	132	118
## ENSG00000081386	122	117	173	138	143	174
## ENSG00000196597	28	24	33	28	38	39
## ENSG00000196312	29	43	59	49	50	50
## ENSG00000188152	7	4	5	5	6	9
## ENSG00000136943	3	11	4	0	1	0
## ENSG00000197816	1	0	0	3	0	1
## ENSG00000196116	139	191	251	181	175	201
## ENSG00000136842	55	54	60	288	346	445
## ENSG00000136925	147	169	214	227	236	286
## ENSG00000136937	967	1073	1373	1031	1213	1354
## ENSG00000136936	76	95	134	61	85	86
## ENSG00000178919	0	1	1	1	2	0
## ENSG00000136932	84	96	122	60	52	67
## ENSG00000136929	0	0	0	0	0	0
## ENSG00000136938	1520	1806	2373	740	880	918
## ENSG00000095380	774	857	1187	366	437	458
## ENSG00000106785	308	333	460	78	139	137
## ENSG00000106789	87	111	108	42	48	54
## ENSG00000095383	994	1191	1609	709	782	851
## ENSG00000136928	906	1161	1495	1742	1838	2282
## ENSG00000165138	358	425	505	368	451	517
## ENSG00000119514	32	23	36	12	17	23
## ENSG00000204291	622	646	751	322	393	385
## ENSG00000106799	538	670	818	808	1003	1234
## ENSG00000119523	522	587	763	677	778	839
## ENSG00000106803	1116	1374	1612	1250	1410	1551
## ENSG00000119508	23	30	41	167	186	212
## ENSG00000136874	157	215	251	173	228	258
## ENSG00000023318	882	980	1213	1532	1805	1981
## ENSG00000119509	237	246	309	193	177	231
## ENSG00000136891	566	637	828	780	908	1061
## ENSG00000066697	919	1158	1424	851	949	1137
## ENSG00000251349	1	0	2	0	1	0
## ENSG00000241697	11	16	24	27	26	22
## ENSG00000170681	103	109	113	83	82	102
## ENSG00000148123	0	0	0	0	0	1
## ENSG00000136881	0	0	2	0	1	1
## ENSG00000136897	222	265	305	275	328	408
## ENSG00000136870	205	200	257	263	308	346
## ENSG00000136872	0	1	1	1	4	2
## ENSG00000165152	380	439	555	349	423	465
## ENSG00000155827	704	735	912	960	1006	1169



## ENSG00000198785	2	1	3	6	3	7
## ENSG00000188386	0	0	0	1	0	0
## ENSG00000155833	0	0	0	0	0	0
## ENSG00000136824	559	678	831	223	306	341
## ENSG00000186881	0	0	0	0	0	0
## ENSG00000148136	0	0	0	0	0	0
## ENSG00000204246	0	0	0	0	0	0
## ENSG00000186943	0	0	0	0	0	0
## ENSG00000277556	0	0	0	0	0	0
## ENSG00000276119	0	0	0	0	0	0
## ENSG00000136839	0	0	0	0	0	0
## ENSG00000179055	0	0	0	0	0	0
## ENSG00000136783	291	354	422	234	312	340
## ENSG00000165028	2	4	2	4	3	6
## ENSG00000165029	1388	1474	1635	3857	4135	4775
## ENSG00000070214	422	495	609	789	858	1134
## ENSG00000106701	58	62	81	73	126	120
## ENSG00000106692	529	682	819	545	647	694
## ENSG00000186051	1	0	0	1	0	0
## ENSG00000095209	153	191	224	388	390	540
## ENSG00000148143	342	438	498	384	480	455
## ENSG00000119318	3816	4655	5628	2787	3310	3622
## ENSG00000136826	145	121	164	236	268	302
## ENSG00000148156	0	0	0	0	0	0
## ENSG00000187003	0	0	0	0	0	0
## ENSG00000070061	892	1003	1288	721	856	973
## ENSG00000119328	176	173	248	253	289	344
## ENSG00000119326	1342	1603	1963	371	492	447
## ENSG00000106771	1761	2135	2586	2952	3206	3751
## ENSG00000260230	2	4	3	1	0	0
## ENSG00000095203	7	15	26	24	23	19
## ENSG00000070159	50	48	72	92	94	103
## ENSG00000243444	19	18	41	68	67	72
## ENSG00000157654	11	13	11	18	23	20
## ENSG00000241978	49	66	68	39	45	60
## ENSG00000188959	2	2	4	4	0	2
## ENSG00000136810	2517	2934	3470	3793	4253	5200
## ENSG00000204193	1	0	0	0	0	1
## ENSG00000165124	675	809	919	954	1164	1167
## ENSG00000030304	4	7	4	6	8	4
## ENSG00000198121	4057	4737	5956	4696	5766	6633
## ENSG00000171133	0	0	0	1	2	1
## ENSG00000136813	1942	2278	2826	1680	1998	2181
## ENSG00000173258	3	2	2	9	13	4
## ENSG00000106853	612	758	892	1175	1269	1630
## ENSG00000059769	166	184	232	155	167	191
## ENSG00000244115	0	0	0	0	0	0
## ENSG00000242616	12	11	20	22	18	29
## ENSG00000165181	1	1	4	1	2	3
## ENSG00000148154	1819	2083	2538	891	1110	1297
## ENSG00000106868	147	197	237	223	255	315
## ENSG00000119314	807	1021	1214	409	578	663
## ENSG00000119471	498	643	775	377	420	455
## ENSG00000165185	19	36	28	16	20	14

## ENSG00000148153	315	377	488	237	306	321
## ENSG00000148158	717	892	967	857	852	1066
## ENSG00000119457	1	0	1	2	3	0
## ENSG00000136866	42	39	60	39	40	51
## ENSG00000136867	7	8	11	3	7	6
## ENSG00000119321	673	723	951	981	999	1215
## ENSG00000136868	1365	1627	1922	2710	2828	3653
## ENSG00000176386	96	83	140	111	110	149
## ENSG00000136875	517	546	696	560	620	745
## ENSG00000165188	0	0	0	0	0	0
## ENSG00000148225	15	28	20	20	23	20
## ENSG00000119411	0	0	0	0	0	0
## ENSG00000119431	54	51	65	50	37	71
## ENSG00000148218	437	492	584	320	408	416
## ENSG00000148229	649	830	991	621	680	846
## ENSG00000157653	2	12	3	7	6	7
## ENSG00000138835	835	912	1148	992	1055	1202
## ENSG00000157657	749	847	994	1499	1655	2056
## ENSG00000106927	1	3	1	0	2	2
## ENSG00000136883	0	0	0	0	0	0
## ENSG00000196739	378	388	542	759	849	1043
## ENSG00000229314	0	1	0	0	0	0
## ENSG00000228278	0	0	0	1	0	0
## ENSG00000106948	238	220	326	112	135	152
## ENSG00000095397	43	53	57	123	139	161
## ENSG00000136888	1063	1209	1466	2536	2840	3394
## ENSG00000157693	130	161	184	112	159	183
## ENSG00000181634	21	27	24	154	157	263
## ENSG00000106952	0	0	0	0	0	0
## ENSG00000041982	18253	21242	27072	17704	21346	23745
## ENSG00000173077	0	2	3	2	3	1
## ENSG00000182752	2371	2634	2783	10663	11393	13691
## ENSG00000148219	49	57	75	107	109	139
## ENSG00000119401	447	483	680	597	648	820
## ENSG00000136869	0	3	1	0	6	2
## ENSG00000078725	0	2	1	6	4	2
## ENSG00000136861	707	809	1065	598	654	741
## ENSG00000106780	441	491	581	780	902	1059
## ENSG00000119402	1002	1305	1511	1275	1417	1695
## ENSG00000095261	719	858	996	572	685	773
## ENSG00000119403	575	706	930	230	274	307
## ENSG00000056558	102	102	115	20	21	28
## ENSG00000106804	37	51	68	15	23	24
## ENSG00000119397	165	182	220	75	91	105
## ENSG00000119396	1521	1793	2201	1717	1976	2324
## ENSG00000148180	4227	4763	6059	4313	4869	5366
## ENSG00000148175	1705	2022	2452	5263	5897	6961
## ENSG00000136848	847	1022	1280	894	1026	1256
## ENSG00000175764	90	81	131	39	28	50
## ENSG00000119421	422	492	599	595	609	742
## ENSG00000185681	0	0	0	0	0	0
## ENSG00000106852	3	3	1	1	1	2
## ENSG00000119446	429	455	561	768	802	1008
## ENSG00000148187	192	247	268	181	228	272

## ENSG00000095303	2171	2391	3005	6719	6931	9744
## ENSG00000136834	0	0	0	2	4	0
## ENSG00000197233	1	0	0	11	13	16
## ENSG00000239590	0	0	0	12	17	19
## ENSG00000171505	0	0	0	0	2	0
## ENSG00000171501	0	0	0	0	0	0
## ENSG00000171496	1	0	0	1	2	0
## ENSG00000165202	0	1	0	8	6	8
## ENSG00000171484	0	0	0	0	0	0
## ENSG00000173679	0	0	0	0	0	0
## ENSG00000171481	0	0	0	0	0	0
## ENSG00000136939	0	0	0	0	0	0
## ENSG00000171459	0	0	0	0	0	0
## ENSG00000148215	0	0	0	0	0	0
## ENSG00000136940	298	392	426	624	742	873
## ENSG00000165204	0	0	0	0	0	0
## ENSG00000056586	860	976	1141	1350	1495	1784
## ENSG00000186130	173	224	266	305	351	444
## ENSG00000171448	104	100	156	142	133	174
## ENSG00000011454	820	911	1041	995	1053	1420
## ENSG00000188394	0	0	0	0	0	0
## ENSG00000165209	92	105	124	104	118	156
## ENSG00000148204	0	0	0	1	0	1
## ENSG00000119522	260	270	390	274	284	382
## ENSG00000106689	0	0	0	0	0	0
## ENSG00000119408	1754	1979	2429	1512	1658	1914
## ENSG00000136930	1920	2134	2718	1878	2124	2372
## ENSG00000180264	0	0	0	0	0	0
## ENSG00000136931	0	0	0	0	0	0
## ENSG00000148200	9	4	3	8	2	10
## ENSG00000185585	293	321	415	359	410	404
## ENSG00000136918	0	0	0	0	0	0
## ENSG00000136942	3283	3587	4359	2647	2913	3253
## ENSG00000136950	572	749	888	650	729	846
## ENSG00000136935	362	341	458	368	413	453
## ENSG00000173611	154	210	232	102	124	114
## ENSG00000119414	703	858	1135	1112	1206	1446
## ENSG00000136933	354	371	567	345	385	404
## ENSG00000044574	17801	19332	25170	25279	26041	31775
## ENSG00000165219	994	1129	1422	1212	1238	1480
## ENSG00000119487	1515	1754	2168	1865	2075	2453
## ENSG00000167081	229	269	341	214	278	307
## ENSG00000196814	97	127	159	225	231	288
## ENSG00000136944	0	0	0	0	0	0
## ENSG00000169155	194	213	244	242	258	294
## ENSG00000177125	132	106	147	333	348	456
## ENSG00000136828	26	39	44	34	46	48
## ENSG00000136859	1030	1027	1311	1577	1732	2166
## ENSG00000136895	17	18	21	5	13	13
## ENSG00000136856	131	166	226	107	132	134
## ENSG00000196152	96	88	124	154	147	175
## ENSG00000197958	4388	4922	6022	4646	5038	5670
## ENSG00000148356	230	281	334	293	298	398
## ENSG00000136830	9297	10620	14142	10843	11863	13860

## ENSG00000136854	843	1025	1284	1193	1282	1658
## ENSG00000187024	1	3	3	3	3	4
## ENSG00000160401	31	39	57	71	75	78
## ENSG00000167094	1	0	0	0	0	1
## ENSG00000160404	102	118	162	148	139	172
## ENSG00000095370	0	0	0	0	0	0
## ENSG00000279363	0	0	0	0	0	0
## ENSG00000136807	548	538	784	782	794	980
## ENSG00000136877	653	681	942	710	729	1002
## ENSG00000106991	3997	4147	5881	2838	2942	3456
## ENSG00000106992	111	149	179	138	180	202
## ENSG00000160408	881	1004	1234	1086	1184	1401
## ENSG00000136840	358	371	498	521	516	593
## ENSG00000167103	18	25	23	16	13	13
## ENSG00000136908	423	474	640	606	630	733
## ENSG00000167106	525	638	761	474	553	610
## ENSG00000171169	163	154	204	151	143	203
## ENSG00000148339	280	302	372	245	279	276
## ENSG00000148334	539	605	774	517	575	763
## ENSG00000148346	0	1	0	1	0	0
## ENSG00000171159	380	438	511	569	572	712
## ENSG00000148337	1291	1561	2012	1645	1779	2129
## ENSG00000106976	350	415	482	267	310	351
## ENSG00000167110	1905	2047	2686	2136	2432	2888
## ENSG00000175854	250	263	392	322	339	380
## ENSG00000167112	432	475	631	452	498	624
## ENSG00000167113	251	216	299	320	338	397
## ENSG00000167114	555	611	776	622	663	825
## ENSG00000167118	653	751	963	814	947	1168
## ENSG00000167123	1864	2020	2577	2619	2812	3193
## ENSG00000136811	724	846	1137	445	561	601
## ENSG00000119392	361	424	542	365	382	468
## ENSG00000197694	8209	9103	11630	7034	7942	8754
## ENSG00000119333	338	387	526	232	206	261
## ENSG00000119335	4089	4993	6065	4792	5337	6072
## ENSG00000160447	62	84	101	38	46	55
## ENSG00000160446	229	221	274	240	255	312
## ENSG00000160445	760	835	1020	1344	1538	1865
## ENSG00000107021	670	734	955	716	798	900
## ENSG00000167136	63	62	100	82	97	110
## ENSG00000198917	248	315	387	281	306	390
## ENSG00000171097	85	94	138	57	65	85
## ENSG00000136802	2099	2331	3174	2885	3103	3929
## ENSG00000175287	29	36	35	17	20	26
## ENSG00000251184	0	0	0	0	0	0
## ENSG00000175283	362	435	531	442	448	573
## ENSG00000095319	1504	1800	2223	1555	1666	1936
## ENSG00000148341	425	427	631	475	510	641
## ENSG00000148343	388	468	610	644	698	858
## ENSG00000167130	247	256	337	156	163	181
## ENSG00000095321	882	924	1320	867	1007	1167
## ENSG00000119383	2353	2636	3286	3012	3445	3949
## ENSG00000188483	212	194	231	394	387	461
## ENSG00000148335	363	443	535	344	402	446

## ENSG00000179058	2	4	1	0	3	2
## ENSG00000148331	507	480	666	444	457	579
## ENSG00000167157	228	286	375	602	716	860
## ENSG00000148344	24	30	43	59	44	62
## ENSG00000136816	668	714	942	337	419	460
## ENSG00000136827	938	1044	1261	1378	1557	1875
## ENSG00000136819	589	704	880	967	967	1190
## ENSG00000136878	419	448	582	441	490	549
## ENSG00000187239	544	585	775	639	741	843
## ENSG00000148358	1886	2182	2678	1348	1664	1727
## ENSG00000107130	2054	2405	3035	1813	1965	2331
## ENSG00000148357	1	3	2	0	0	1
## ENSG00000130707	384	459	540	123	171	161
## ENSG00000107164	1163	1291	1681	906	1012	1135
## ENSG00000130711	1	3	1	4	1	2
## ENSG00000130713	274	288	415	242	267	300
## ENSG00000097007	2469	2784	3597	2497	2709	3175
## ENSG00000188710	7	6	3	4	6	7
## ENSG00000130720	255	355	443	467	476	643
## ENSG00000050555	0	0	1	0	0	1
## ENSG00000126878	2	2	8	0	3	2
## ENSG00000126883	769	834	1079	739	763	906
## ENSG00000126882	18	14	20	21	37	38
## ENSG00000160539	16	25	35	10	14	14
## ENSG00000130723	3095	3319	4365	1707	1871	2222
## ENSG00000130714	552	595	846	756	838	1028
## ENSG00000130717	329	353	532	442	491	607
## ENSG00000107263	1345	1597	1985	1985	2215	2430
## ENSG00000160563	323	382	481	331	345	415
## ENSG00000196358	51	63	87	152	154	187
## ENSG00000107290	1432	1631	1881	2726	3093	3590
## ENSG00000125482	158	188	210	185	201	248
## ENSG00000188523	0	1	0	2	5	6
## ENSG00000125492	0	2	0	0	2	0
## ENSG00000125485	210	224	279	227	266	295
## ENSG00000125484	708	814	977	987	1130	1266
## ENSG00000165695	0	1	2	3	3	2
## ENSG00000165698	44	56	71	24	47	56
## ENSG00000165699	833	889	1161	1017	1047	1256
## ENSG00000165702	0	0	1	0	0	0
## ENSG00000148308	542	624	817	546	597	674
## ENSG00000170835	2	3	5	4	1	8
## ENSG00000160271	415	458	643	742	751	997
## ENSG00000148288	24	17	32	37	27	39
## ENSG00000171102	0	0	0	0	0	0
## ENSG00000175164	0	0	0	0	0	0
## ENSG00000148296	469	594	683	612	625	762
## ENSG00000148297	552	593	795	493	496	606
## ENSG00000148303	10447	11428	14342	9236	10229	11844
## ENSG00000148290	163	178	238	275	251	306
## ENSG00000148291	74	109	129	87	111	120
## ENSG00000148248	7839	9170	11821	9742	10782	12234
## ENSG00000198870	1	5	7	2	14	12
## ENSG00000148300	435	483	654	646	681	812

## ENSG00000160323	22	19	27	34	36	48
## ENSG00000160325	181	172	196	398	408	484
## ENSG00000160326	192	173	238	218	247	327
## ENSG00000187616	0	0	0	0	0	0
## ENSG00000197859	0	1	2	2	1	0
## ENSG00000196990	0	1	0	1	1	0
## ENSG00000123454	6	6	4	3	2	4
## ENSG00000123453	73	85	92	25	24	32
## ENSG00000160293	691	758	983	1063	1070	1312
## ENSG00000169925	453	459	606	740	742	975
## ENSG00000196363	520	674	846	498	550	647
## ENSG00000186350	783	792	1134	1095	1082	1380
## ENSG00000130635	18629	20129	26277	18409	21393	22299
## ENSG00000160339	0	0	0	0	0	0
## ENSG00000085265	0	0	0	0	0	0
## ENSG00000130558	10	11	19	12	23	13
## ENSG00000196422	228	237	299	340	394	516
## ENSG00000160345	30	39	55	38	51	79
## ENSG00000122140	346	433	565	463	441	566
## ENSG00000160349	0	0	0	0	0	0
## ENSG00000122136	0	0	0	0	0	0
## ENSG00000122133	0	0	0	0	0	0
## ENSG00000204007	0	0	0	0	0	0
## ENSG00000148386	0	0	0	0	0	0
## ENSG00000165643	0	0	0	0	0	0
## ENSG00000107147	0	0	0	0	1	0
## ENSG00000130559	977	1192	1430	1153	1349	1553
## ENSG00000130560	370	441	588	517	557	620
## ENSG00000148411	1239	1415	1850	2226	2516	2816
## ENSG00000238227	664	708	967	1308	1270	1681
## ENSG00000107187	0	0	0	0	0	0
## ENSG00000165661	552	550	781	255	275	331
## ENSG00000279813	0	0	0	0	0	0
## ENSG00000260220	0	0	0	0	0	0
## ENSG00000160360	1564	1783	2296	1847	2169	2456
## ENSG00000213221	1	1	5	2	9	5
## ENSG00000187796	35	45	54	38	38	49
## ENSG00000165684	264	251	353	470	480	645
## ENSG00000165689	396	469	576	527	555	713
## ENSG00000165688	1072	1242	1665	995	1107	1284
## ENSG00000148384	208	221	293	305	304	409
## ENSG00000148396	2713	3056	4026	3333	3662	4161
## ENSG00000148400	640	659	993	1577	1517	2034
## ENSG00000172889	76	80	85	113	152	188
## ENSG00000169692	477	494	680	683	762	913
## ENSG00000165716	15	15	25	23	29	27
## ENSG00000187922	0	0	0	0	0	0
## ENSG00000204003	0	0	0	0	0	0
## ENSG00000267206	0	0	0	0	0	0
## ENSG00000204001	0	0	0	0	0	0
## ENSG00000177984	0	0	0	0	0	0
## ENSG00000244187	98	122	134	123	124	133
## ENSG00000272896	0	0	0	0	0	0
## ENSG00000213213	8	4	13	14	9	13

## ENSG00000196642	1329	1471	1973	1280	1482	1773
## ENSG00000232434	75	84	112	73	72	84
## ENSG00000054148	647	743	897	1000	1097	1262
## ENSG00000177943	38	23	44	39	39	34
## ENSG00000107223	2178	2394	3003	2046	2207	2428
## ENSG00000127191	192	165	253	152	167	217
## ENSG00000159069	1234	1361	1849	1603	1714	2150
## ENSG00000176919	0	1	0	2	5	4
## ENSG00000184925	0	0	0	0	0	0
## ENSG00000107317	20	16	25	35	39	62
## ENSG00000214402	1	0	0	2	3	2
## ENSG00000148362	116	135	186	88	87	94
## ENSG00000169583	4	4	8	2	0	2
## ENSG00000107331	839	953	1287	1233	1351	1640
## ENSG00000180549	0	0	1	0	0	0
## ENSG00000279073	0	0	0	0	0	0
## ENSG00000107281	735	823	1029	1185	1268	1401
## ENSG00000054179	0	3	0	2	3	1
## ENSG00000186193	121	130	170	16	18	19
## ENSG00000197355	212	257	355	437	392	552
## ENSG00000177239	1267	1385	1847	1526	1607	1954
## ENSG00000176978	540	676	832	1241	1278	1656
## ENSG00000176884	3	2	3	6	2	4
## ENSG00000184709	0	0	0	1	0	0
## ENSG00000261793	0	0	0	0	0	0
## ENSG00000185863	0	0	0	0	0	0
## ENSG00000176248	463	504	582	592	679	807
## ENSG00000176101	546	653	860	764	830	1041
## ENSG00000176058	196	214	300	250	259	312
## ENSG00000187713	359	456	576	565	576	719
## ENSG00000188566	131	192	246	206	203	268
## ENSG00000212864	14	17	17	20	18	27
## ENSG00000197191	4	12	8	14	26	17
## ENSG00000233198	0	2	0	4	3	5
## ENSG00000198569	0	1	6	6	7	5
## ENSG00000188229	4686	5642	7392	2657	2731	3395
## ENSG00000188163	1	0	1	2	3	1
## ENSG00000197768	0	1	0	0	0	0
## ENSG00000188986	926	977	1259	1175	1246	1503
## ENSG00000198113	1471	1714	2202	1783	1812	2305
## ENSG00000198435	2	1	0	7	4	8
## ENSG00000187609	80	84	112	105	102	153
## ENSG00000188747	0	1	0	5	1	3
## ENSG00000188833	0	0	1	0	0	1
## ENSG00000165802	802	916	1123	1440	1535	1988
## ENSG00000130653	29	12	28	42	49	61
## ENSG00000182154	431	420	604	579	579	686
## ENSG00000148399	161	234	272	199	222	242
## ENSG00000165724	238	247	329	299	344	371
## ENSG00000197070	159	180	234	293	316	406
## ENSG00000181090	745	885	1119	989	1057	1229
## ENSG00000148408	1	2	5	0	6	0
## ENSG00000250210	0	0	0	0	0	0
## ENSG00000177951	862	1005	1299	993	1148	1269

## ENSG00000188076	0	0	0	0	0	0
## ENSG00000177947	0	0	0	0	0	0
## ENSG00000177963	2130	2463	3129	2121	2403	2815
## ENSG00000142082	111	141	174	121	140	165
## ENSG00000185627	1635	1922	2399	1776	1901	2270
## ENSG00000174885	0	1	0	1	0	0
## ENSG00000142102	40	69	76	81	97	102
## ENSG00000206013	0	0	0	0	0	0
## ENSG00000185201	803	908	1222	923	1065	1194
## ENSG00000185885	78	88	116	238	294	311
## ENSG00000142089	2252	2421	3059	3474	4000	4299
## ENSG00000182272	340	377	443	420	473	554
## ENSG00000184363	18	26	20	5	8	5
## ENSG00000185187	71	85	113	85	105	134
## ENSG00000185101	2	1	2	1	4	5
## ENSG00000174915	589	644	875	608	696	789
## ENSG00000023191	2251	2537	3371	2501	2632	3145
## ENSG00000174775	572	619	788	731	673	877
## ENSG00000161328	31	29	40	60	70	79
## ENSG00000185522	2	3	4	7	5	13
## ENSG00000099849	77	103	123	65	68	75
## ENSG00000070047	962	1072	1417	1000	1070	1296
## ENSG00000185507	32	56	47	72	61	92
## ENSG00000099834	2	2	2	1	1	1
## ENSG00000070031	1	1	1	0	0	1
## ENSG00000069696	4	3	1	1	2	3
## ENSG00000177030	313	369	503	468	580	644
## ENSG00000177106	242	220	318	192	192	262
## ENSG00000177042	190	203	267	247	262	307
## ENSG00000177156	2393	2828	3503	2753	3129	3678
## ENSG00000177225	727	869	1004	780	864	1049
## ENSG00000184524	122	129	174	101	110	125
## ENSG00000177542	515	561	749	344	391	426
## ENSG00000274897	11	13	18	12	18	18
## ENSG00000177595	163	144	220	406	411	467
## ENSG00000177600	4348	5207	6252	4584	4719	5473
## ENSG00000177666	852	928	1231	1442	1583	1926
## ENSG00000177685	11	5	8	5	7	4
## ENSG00000177697	6743	7419	9516	7614	8564	9995
## ENSG00000177700	1791	2025	2650	2028	2132	2511
## ENSG00000214063	1738	1951	2614	2507	2582	2965
## ENSG00000177830	1021	1138	1343	1370	1420	1673
## ENSG00000183020	1404	1545	2168	1678	1895	2147
## ENSG00000184956	0	2	0	0	0	1
## ENSG00000215182	1	3	4	4	4	5
## ENSG00000117983	0	0	0	0	0	0
## ENSG00000078902	687	744	963	1083	1133	1476
## ENSG00000174672	10	18	16	22	35	31
## ENSG00000182208	212	230	318	367	396	483
## ENSG00000184545	96	111	139	31	45	45
## ENSG00000278919	0	0	0	0	1	0
## ENSG00000205869	0	0	0	0	0	0
## ENSG00000205867	0	0	0	0	0	0
## ENSG00000196224	0	0	0	0	0	0



## ENSG00000241598	0	0	0	0	0	0
## ENSG00000185940	0	0	0	0	0	0
## ENSG00000205864	0	0	0	0	0	0
## ENSG00000244242	35	28	28	85	65	90
## ENSG00000250644	1	0	1	0	0	1
## ENSG00000117984	2009	2114	2834	3609	3626	4626
## ENSG00000149043	0	0	0	0	0	0
## ENSG00000130598	0	0	0	0	0	0
## ENSG00000130592	0	2	0	0	1	1
## ENSG00000184682	0	0	0	0	0	0
## ENSG00000130595	0	0	0	0	0	0
## ENSG00000214026	89	80	109	73	69	79
## ENSG00000167244	280	329	370	1101	1070	1380
## ENSG00000129965	0	0	0	0	0	0
## ENSG00000254647	0	0	0	0	0	0
## ENSG00000180176	0	0	0	0	1	0
## ENSG00000183734	0	0	0	0	0	0
## ENSG00000110665	0	0	0	0	0	0
## ENSG00000064201	4	2	5	3	1	3
## ENSG00000110651	5154	5580	7336	7264	8088	9310
## ENSG00000184281	407	509	633	555	630	725
## ENSG00000070985	0	0	0	0	0	0
## ENSG00000053918	0	0	0	0	0	0
## ENSG00000129757	35	30	31	63	72	92
## ENSG00000254827	1	3	1	2	2	5
## ENSG00000110628	130	150	196	262	277	310
## ENSG00000181649	1099	1257	1599	1439	1437	1836
## ENSG00000205531	1339	1599	2020	1964	2177	2473
## ENSG00000110619	1558	1677	2044	1151	1389	1488
## ENSG00000021762	604	627	784	656	671	851
## ENSG00000182170	0	0	0	0	0	0
## ENSG00000184350	0	0	0	0	0	0
## ENSG00000005801	115	141	165	290	324	436
## ENSG00000167311	1	0	0	3	0	2
## ENSG00000129744	0	0	0	0	0	0
## ENSG00000129749	8	7	10	3	8	6
## ENSG00000110713	1751	2101	2609	2059	2336	2592
## ENSG00000148985	184	182	227	168	173	169
## ENSG00000177105	547	660	782	425	416	542
## ENSG00000167323	564	625	924	863	926	1043
## ENSG00000167325	1139	1471	1872	750	931	969
## ENSG00000280253	0	0	0	0	0	0
## ENSG00000132109	176	225	253	223	259	330
## ENSG00000181963	0	0	0	0	0	0
## ENSG00000196778	0	0	0	0	0	0
## ENSG00000197790	0	0	0	0	0	0
## ENSG00000171987	0	0	0	0	0	0
## ENSG00000226288	0	0	0	0	0	0
## ENSG00000232268	0	0	0	0	0	0
## ENSG00000167333	135	150	226	109	119	132
## ENSG00000197428	0	0	0	0	0	0
## ENSG00000180785	0	0	0	0	0	0
## ENSG00000167332	11	16	18	0	5	3
## ENSG00000167346	0	1	0	0	0	1

## ENSG00000188069	0	0	0	0	0	0
## ENSG00000176937	0	0	0	0	0	0
## ENSG00000176925	0	0	0	0	0	0
## ENSG00000176922	0	0	0	0	0	0
## ENSG00000176904	0	0	0	0	0	0
## ENSG00000176900	0	0	0	0	0	0
## ENSG00000176895	0	0	0	0	0	0
## ENSG00000176893	0	0	0	0	0	0
## ENSG00000176879	0	0	0	0	0	0
## ENSG00000205497	0	0	0	0	0	0
## ENSG00000205496	0	0	0	0	0	0
## ENSG00000176798	0	0	0	0	0	0
## ENSG00000205495	0	0	0	0	0	0
## ENSG00000176787	0	0	0	0	0	0
## ENSG00000171944	0	0	0	0	0	0
## ENSG00000182070	0	0	0	0	0	0
## ENSG00000176742	0	0	0	0	0	0
## ENSG00000244734	0	0	0	0	0	0
## ENSG00000223609	7	5	6	2	8	4
## ENSG00000213934	0	0	0	0	0	0
## ENSG00000196565	0	1	0	1	0	1
## ENSG00000279824	0	0	0	0	0	0
## ENSG00000279346	0	0	0	0	0	0
## ENSG00000213931	1	0	1	0	2	1
## ENSG00000183251	0	0	0	0	0	0
## ENSG00000184881	0	0	0	0	0	0
## ENSG00000242180	0	0	0	0	0	0
## ENSG00000176239	0	0	0	0	0	0
## ENSG00000184698	0	1	0	0	0	0
## ENSG00000184321	0	0	0	0	0	0
## ENSG00000167360	0	0	0	0	0	0
## ENSG00000167359	0	0	0	0	0	0
## ENSG00000187918	0	0	0	0	0	0
## ENSG00000181609	0	0	0	0	0	0
## ENSG00000175520	0	0	0	0	0	0
## ENSG00000175518	4	4	3	0	6	0
## ENSG00000181616	0	0	0	0	0	0
## ENSG00000187747	0	0	0	0	0	0
## ENSG00000121236	46	53	65	9	23	9
## ENSG00000258588	0	0	0	0	0	0
## ENSG00000258659	0	0	0	0	2	0
## ENSG00000132256	557	593	741	783	840	963
## ENSG00000132274	631	690	940	1441	1620	1938
## ENSG00000181023	0	0	0	0	0	0
## ENSG00000181074	0	0	0	0	0	0
## ENSG00000181009	0	0	0	0	0	0
## ENSG00000181001	0	0	0	0	0	0
## ENSG00000180988	0	0	0	0	0	0
## ENSG00000205409	0	0	0	0	0	0
## ENSG00000183269	0	0	0	0	0	0
## ENSG00000180974	0	0	0	0	0	0
## ENSG00000277932	0	0	0	0	0	0
## ENSG00000184478	0	0	0	0	0	0
## ENSG00000188691	0	0	0	0	0	0

## ENSG00000183313	0	0	0	0	0	0
## ENSG00000183389	0	0	0	0	0	0
## ENSG00000180934	0	0	0	0	0	0
## ENSG00000180919	0	0	0	0	1	0
## ENSG00000255307	0	0	0	0	0	0
## ENSG00000175485	0	0	0	0	0	0
## ENSG00000180878	0	5	2	0	1	0
## ENSG00000051009	201	241	314	260	279	329
## ENSG00000132259	0	1	2	0	0	1
## ENSG00000110148	0	0	0	0	0	0
## ENSG00000170955	1065	1296	1652	892	1026	1157
## ENSG00000166311	1669	1871	2537	2660	2934	3248
## ENSG00000166313	740	812	1023	684	769	868
## ENSG00000110169	6	4	8	14	20	9
## ENSG00000110171	246	242	365	315	320	438
## ENSG00000132254	791	937	1228	872	1062	1080
## ENSG00000132286	305	328	425	380	422	505
## ENSG00000265264	0	0	1	0	0	0
## ENSG00000179532	49	49	68	80	77	73
## ENSG00000132275	203	227	268	177	211	259
## ENSG00000166333	61	55	76	51	68	91
## ENSG00000166337	474	504	624	546	554	695
## ENSG00000166340	1576	1563	2246	3330	3337	4160
## ENSG00000166341	519	619	771	538	683	848
## ENSG00000158042	722	840	1079	699	776	898
## ENSG00000188124	0	0	2	0	1	0
## ENSG00000170803	0	0	0	0	0	0
## ENSG00000184933	0	0	1	0	0	3
## ENSG00000166363	0	0	0	0	0	0
## ENSG00000170790	0	0	0	1	0	0
## ENSG00000170782	0	0	0	0	0	1
## ENSG00000166368	0	0	0	0	0	0
## ENSG00000178358	0	0	0	0	0	0
## ENSG00000149054	54	83	82	50	67	80
## ENSG00000149050	15	18	12	22	22	29
## ENSG00000158077	0	1	1	0	0	1
## ENSG00000170748	0	0	0	0	0	0
## ENSG00000170743	0	0	0	0	0	0
## ENSG00000183801	1	0	1	1	0	1
## ENSG00000166387	40	57	43	42	32	50
## ENSG00000166394	36	36	30	24	27	33
## ENSG00000183378	0	0	1	0	0	1
## ENSG00000183303	0	0	0	0	0	0
## ENSG00000182334	0	0	0	0	0	0
## ENSG00000175393	0	0	0	0	0	0
## ENSG00000170683	0	0	1	0	0	0
## ENSG00000182261	67	62	94	11	10	6
## ENSG00000175390	2372	2565	3451	2427	2687	3122
## ENSG00000166402	325	383	473	69	75	70
## ENSG00000166405	0	0	0	0	1	0
## ENSG00000166407	0	0	0	1	0	0
## ENSG00000130413	25	23	37	40	48	53
## ENSG00000166436	105	124	144	150	168	200
## ENSG00000166441	6672	7505	9232	7146	7928	8713

## ENSG00000166444	696	723	950	1043	1163	1404
## ENSG00000166452	251	261	317	335	361	418
## ENSG00000176029	1	2	0	1	1	6
## ENSG00000176009	0	0	0	0	0	0
## ENSG00000175348	582	763	864	612	742	821
## ENSG00000175352	413	502	603	364	411	519
## ENSG00000175356	19	17	28	28	26	32
## ENSG00000184014	1805	2098	2665	1627	1922	2103
## ENSG00000166471	361	438	490	496	491	602
## ENSG00000205339	3530	4144	5121	4008	4654	5333
## ENSG00000166478	214	274	304	299	339	405
## ENSG00000166483	311	330	466	578	708	813
## ENSG00000133789	735	860	1133	878	1008	1105
## ENSG00000133812	809	841	1065	1004	1006	1173
## ENSG00000148926	867	962	1295	1411	1548	1858
## ENSG00000133805	386	403	487	612	631	812
## ENSG00000255823	20	31	21	22	35	22
## ENSG00000110315	554	583	692	403	525	563
## ENSG00000133800	0	0	0	0	1	0
## ENSG00000072952	835	1043	1132	403	614	487
## ENSG00000198730	1110	1289	1634	1330	1437	1707
## ENSG00000110321	22190	26006	32951	20389	23811	26838
## ENSG00000236287	385	457	558	387	459	591
## ENSG00000110328	145	149	197	233	221	323
## ENSG00000254598	7	7	9	13	14	10
## ENSG00000170242	1690	1979	2372	1830	2317	2478
## ENSG00000050165	14042	15905	20847	20481	23535	26084
## ENSG00000133816	9501	11270	13661	8087	9398	10506
## ENSG00000133808	26	42	36	49	33	60
## ENSG00000197702	3924	4658	5790	2830	3387	3639
## ENSG00000187079	4522	5221	6143	4245	4988	5561
## ENSG00000189431	0	0	0	0	0	0
## ENSG00000133794	143	173	233	263	263	321
## ENSG00000148925	680	710	880	625	764	833
## ENSG00000152266	0	0	0	0	0	0
## ENSG00000197601	763	845	1101	609	654	809
## ENSG00000262655	40	56	55	57	63	78
## ENSG00000133818	1233	1450	1830	227	333	285
## ENSG00000129083	3536	4059	5122	4705	5604	6197
## ENSG00000256206	0	0	0	0	0	0
## ENSG00000129084	228	294	389	297	361	409
## ENSG00000152270	32	33	42	80	76	116
## ENSG00000186104	66	80	64	44	60	75
## ENSG00000175868	0	0	0	10	12	17
## ENSG00000110680	0	0	0	3	2	1
## ENSG00000188487	24	20	30	507	494	749
## ENSG00000110693	161	176	174	235	294	320
## ENSG00000110696	1766	2066	2520	2097	2424	2727
## ENSG00000166689	0	0	2	1	2	1
## ENSG00000110700	2908	3244	3962	2989	3398	3781
## ENSG00000011405	1122	1142	1418	1387	1711	1900
## ENSG00000070081	1245	1405	1867	940	1133	1166
## ENSG00000188211	86	123	137	241	230	283
## ENSG00000187486	0	0	0	0	0	0

## ENSG00000006071	0	0	0	0	0	0
## ENSG00000006611	0	1	0	0	0	0
## ENSG000000188162	0	0	0	0	0	0
## ENSG000000129152	0	0	0	0	0	0
## ENSG000000129159	6	5	8	14	16	18
## ENSG000000129158	39	70	83	41	49	81
## ENSG000000129167	0	0	1	0	2	1
## ENSG000000166788	144	147	190	93	95	111
## ENSG000000148965	0	0	0	0	0	0
## ENSG000000179826	0	3	1	1	1	0
## ENSG000000179817	0	0	1	0	0	0
## ENSG000000255071	0	0	0	0	0	0
## ENSG000000134339	0	0	0	0	0	0
## ENSG000000173432	0	0	0	0	0	1
## ENSG000000110756	437	546	619	362	481	481
## ENSG000000110768	698	800	970	984	1054	1265
## ENSG000000134333	10324	12263	15410	6142	7034	7870
## ENSG000000166796	0	0	0	0	0	0
## ENSG000000166800	1	0	1	0	1	2
## ENSG000000074319	727	802	1006	1171	1266	1467
## ENSG000000151116	351	429	536	340	437	491
## ENSG000000179119	627	732	853	769	837	971
## ENSG000000151117	14	29	37	97	86	113
## ENSG000000179057	1	1	3	1	3	2
## ENSG000000110786	0	0	0	0	1	0
## ENSG000000170255	0	0	0	0	0	0
## ENSG000000183695	0	0	0	0	0	0
## ENSG000000177054	127	148	183	166	214	237
## ENSG000000129170	0	0	0	0	0	0
## ENSG000000129173	25	43	45	8	14	7
## ENSG000000166833	754	844	1076	189	185	202
## ENSG000000109851	0	0	0	0	0	0
## ENSG000000109854	247	268	320	295	335	436
## ENSG000000185238	130	190	208	155	212	233
## ENSG000000165970	0	0	0	0	0	0
## ENSG000000165973	0	0	0	0	0	0
## ENSG000000171714	0	0	0	0	0	0
## ENSG000000091664	0	0	0	0	0	0
## ENSG000000183161	123	130	152	146	180	232
## ENSG000000148935	5	3	8	6	7	14
## ENSG000000198168	186	265	300	239	240	284
## ENSG000000255359	0	1	0	0	0	0
## ENSG000000187398	43	82	99	92	158	114
## ENSG000000134343	7	3	5	1	1	3
## ENSG000000169550	0	0	0	0	0	0
## ENSG000000148942	1	0	0	0	0	0
## ENSG000000176971	316	337	483	372	432	418
## ENSG000000129151	0	0	0	0	0	0
## ENSG000000109881	103	129	178	46	57	63
## ENSG000000205213	222	282	384	395	483	516
## ENSG000000148943	450	592	664	658	693	834
## ENSG000000176697	2254	2572	3227	2279	2715	3031
## ENSG000000121621	181	242	310	63	76	73
## ENSG000000169519	214	274	308	170	204	205

## ENSG00000182255	0	0	0	0	0	0
## ENSG00000131808	0	0	0	0	0	0
## ENSG00000152219	223	270	338	275	348	347
## ENSG00000066382	5	5	5	6	2	1
## ENSG00000170959	0	2	0	0	1	0
## ENSG00000170946	126	160	199	187	196	235
## ENSG00000148950	60	65	83	69	59	70
## ENSG00000109911	85	100	117	46	66	60
## ENSG00000007372	5	5	4	1	7	4
## ENSG00000049449	5656	6176	7699	5038	5642	6405
## ENSG00000184937	0	0	0	0	0	0
## ENSG00000149100	1372	1588	2003	1471	1800	2023
## ENSG00000186714	0	1	1	0	0	0
## ENSG00000135378	0	0	0	2	2	0
## ENSG00000060749	784	942	1017	709	866	909
## ENSG00000121690	68	72	82	56	67	83
## ENSG00000176148	317	408	505	209	227	226
## ENSG00000280550	28	15	19	13	11	7
## ENSG00000176102	373	412	520	420	515	606
## ENSG00000110422	827	1031	1244	2283	2538	3037
## ENSG00000110427	424	534	667	339	372	426
## ENSG00000205177	3	1	3	4	3	6
## ENSG00000085063	9961	11900	14825	13229	14705	17196
## ENSG00000110429	391	428	542	436	488	557
## ENSG00000135363	0	0	0	7	20	12
## ENSG00000135387	5653	6331	8463	7436	8646	10121
## ENSG00000135372	616	754	900	655	718	858
## ENSG00000166016	107	123	162	168	172	234
## ENSG00000121691	648	684	865	538	596	690
## ENSG00000135374	0	0	0	0	0	0
## ENSG00000135373	5	1	2	10	13	16
## ENSG00000149089	235	260	322	390	437	505
## ENSG00000110435	580	676	823	911	1002	1211
## ENSG00000026508	25520	29839	36974	41821	47004	54074
## ENSG00000110436	21	6	9	33	43	39
## ENSG00000149090	1324	1508	1938	3302	3815	4351
## ENSG00000179431	563	675	873	976	920	1275
## ENSG00000166326	1852	2470	2707	1039	1183	1285
## ENSG00000179241	176	201	280	147	155	189
## ENSG00000110442	342	446	555	415	439	519
## ENSG00000135362	39	36	63	48	50	89
## ENSG00000175104	148	198	228	132	175	167
## ENSG00000166349	22	10	30	5	8	15
## ENSG00000175097	1	0	0	1	0	0
## ENSG00000166352	91	88	123	102	104	131
## ENSG00000148948	0	1	1	0	1	0
## ENSG00000166181	1408	1670	1962	1104	1321	1613
## ENSG00000052841	851	1036	1255	1198	1303	1511
## ENSG00000149084	962	1121	1304	1198	1352	1566
## ENSG00000166199	177	239	256	155	206	247
## ENSG00000187479	13	11	14	445	322	594
## ENSG00000205126	0	0	0	0	0	0
## ENSG00000110455	17	28	44	51	45	41
## ENSG00000151348	2017	2384	3192	2568	2890	3307

## ENSG00000052850	0	0	0	0	1	0
## ENSG00000085117	1349	1527	1960	4462	4420	5745
## ENSG000000157570	17	19	30	6	11	5
## ENSG000000175274	1171	1279	1637	1876	2072	2463
## ENSG00000019485	101	103	115	101	113	139
## ENSG00000019505	0	0	0	0	0	0
## ENSG000000175264	7	7	7	10	11	15
## ENSG000000181830	805	927	1216	1398	1460	1864
## ENSG000000121671	318	345	484	341	339	407
## ENSG000000121653	197	243	291	253	255	304
## ENSG000000234776	1	2	1	6	8	11
## ENSG000000121680	152	164	218	218	256	295
## ENSG000000165905	0	1	2	0	2	0
## ENSG000000135365	525	570	740	624	728	848
## ENSG000000157613	4134	4499	5876	4880	5615	5880
## ENSG000000149091	1018	1132	1601	1173	1303	1549
## ENSG000000110492	720	826	1038	1577	1736	1968
## ENSG000000180720	0	1	1	4	1	2
## ENSG000000110497	416	503	650	626	696	842
## ENSG000000180423	42	40	80	75	75	87
## ENSG000000175224	1036	1166	1451	2232	2545	3033
## ENSG000000175220	2142	2546	3282	2880	3217	3562
## ENSG000000175213	170	202	289	247	276	318
## ENSG000000180210	1	0	1	1	1	0
## ENSG000000175216	2639	2953	3756	1343	1664	1771
## ENSG000000134569	313	310	434	842	792	1109
## ENSG000000149179	238	286	377	230	291	333
## ENSG000000149182	737	835	984	685	792	846
## ENSG000000165912	221	236	312	95	136	153
## ENSG000000134574	292	366	433	436	506	515
## ENSG000000134575	380	474	582	585	645	790
## ENSG000000025434	59	73	79	56	72	64
## ENSG000000110514	640	720	935	563	643	792
## ENSG000000134571	0	0	0	0	0	0
## ENSG000000066336	0	0	0	0	1	0
## ENSG000000165915	1894	2007	2763	2003	2247	2507
## ENSG000000165916	1921	2210	2889	1269	1546	1723
## ENSG000000165917	0	1	0	1	5	1
## ENSG000000149187	1358	1545	1816	1919	2158	2569
## ENSG000000213619	487	484	647	609	620	779
## ENSG000000110536	75	76	89	106	112	119
## ENSG000000123444	80	82	122	98	110	117
## ENSG000000196666	0	0	0	1	0	0
## ENSG000000172247	1	0	1	0	0	1
## ENSG000000109919	1329	1609	1950	1344	1495	1716
## ENSG000000165923	2	1	5	5	5	2
## ENSG000000109920	497	607	676	750	840	946
## ENSG000000030066	593	687	930	720	884	972
## ENSG000000149177	332	391	436	643	771	909
## ENSG000000175619	0	0	0	0	0	0
## ENSG000000279556	0	0	0	0	0	0
## ENSG000000176567	0	0	0	0	0	0
## ENSG000000176555	0	0	0	0	0	0
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## ENSG00000176540	0	0	0	0	0	0
## ENSG00000237388	0	0	0	0	0	0
## ENSG00000182053	0	0	0	0	0	0
## ENSG00000214891	0	0	0	0	0	0
## ENSG00000086205	0	0	0	0	0	0
## ENSG00000258817	0	0	0	0	0	0
## ENSG00000221954	0	0	0	0	0	0
## ENSG00000185926	0	0	0	0	0	0
## ENSG00000221840	0	0	0	0	0	0
## ENSG00000150244	0	0	0	0	0	0
## ENSG00000181961	0	0	0	0	0	0
## ENSG00000181958	0	0	0	0	0	0
## ENSG00000181939	0	0	0	0	0	0
## ENSG00000181935	0	0	0	0	0	0
## ENSG00000172188	0	0	0	0	0	0
## ENSG00000181927	0	0	0	0	0	0
## ENSG00000174982	0	0	0	0	0	0
## ENSG00000181903	0	0	0	0	0	0
## ENSG00000198877	0	0	0	0	0	0
## ENSG00000186113	0	0	0	0	0	0
## ENSG00000186117	0	0	0	0	0	0
## ENSG00000186119	0	0	0	0	0	0
## ENSG00000205030	0	0	0	0	0	0
## ENSG00000205029	0	0	0	0	0	0
## ENSG00000124900	0	0	0	0	0	0
## ENSG00000187612	0	0	0	0	0	0
## ENSG00000167825	0	0	0	0	0	0
## ENSG00000174970	0	0	0	0	0	0
## ENSG00000149133	0	0	0	0	0	0
## ENSG00000181785	0	0	0	0	0	0
## ENSG00000172154	0	0	0	0	0	0
## ENSG00000181767	0	0	0	0	0	0
## ENSG00000181761	0	0	0	0	0	0
## ENSG00000167822	0	0	0	0	0	0
## ENSG00000181752	0	0	0	0	0	0
## ENSG00000174957	0	0	0	0	0	0
## ENSG00000181718	0	0	0	0	0	0
## ENSG00000172489	0	0	0	0	0	0
## ENSG00000181698	0	0	0	0	0	0
## ENSG00000181693	0	0	0	0	0	0
## ENSG00000181689	0	0	0	0	0	0
## ENSG00000150261	0	0	0	0	0	0
## ENSG00000172487	0	0	0	0	0	0
## ENSG00000172199	0	0	0	0	0	0
## ENSG00000174942	0	0	0	0	0	0
## ENSG00000150269	0	0	0	0	0	0
## ENSG00000174937	0	0	0	0	0	0
## ENSG00000181371	0	0	0	0	0	0
## ENSG00000255223	0	0	0	0	0	0
## ENSG00000254834	0	0	0	0	0	0
## ENSG00000255012	0	0	0	0	0	0
## ENSG00000172464	0	0	0	0	0	0
## ENSG00000279911	0	0	0	0	0	0
## ENSG00000174914	0	0	0	0	0	0



## ENSG00000172457	0	0	0	0	0	0
## ENSG00000181273	0	0	0	0	0	0
## ENSG00000183908	0	0	0	0	0	0
## ENSG00000134817	0	0	0	1	0	0
## ENSG00000149115	2975	3205	4408	3500	3864	4568
## ENSG00000149136	1916	2318	3020	1548	1595	1849
## ENSG00000109991	0	0	0	0	0	0
## ENSG00000156575	0	0	0	0	0	0
## ENSG00000186652	0	0	0	0	0	0
## ENSG00000254979	0	0	0	0	0	0
## ENSG00000134802	66	86	125	104	110	117
## ENSG00000186907	5	10	12	8	8	11
## ENSG00000149150	212	231	287	470	508	598
## ENSG00000134809	194	258	324	234	221	247
## ENSG00000214872	0	1	0	1	0	0
## ENSG00000156587	329	339	484	230	279	294
## ENSG00000149131	194	240	296	252	348	397
## ENSG00000166793	11	8	5	17	9	25
## ENSG00000172409	162	189	268	241	256	309
## ENSG00000156599	1851	2086	2631	3392	3628	4539
## ENSG00000156603	185	223	267	171	207	227
## ENSG00000213593	891	949	1248	1008	1080	1263
## ENSG00000254462	0	0	1	0	0	0
## ENSG00000211450	320	332	453	500	533	698
## ENSG00000254732	0	1	1	0	0	2
## ENSG00000233436	1	0	1	1	1	3
## ENSG00000198561	3965	4416	5564	4615	5354	5819
## ENSG00000186509	0	0	0	0	0	1
## ENSG00000172381	0	0	0	0	0	0
## ENSG00000172377	0	0	0	0	0	0
## ENSG00000186513	0	0	0	0	0	0
## ENSG00000197887	0	0	0	0	0	0
## ENSG00000172774	0	0	0	0	0	0
## ENSG00000180475	0	0	0	0	0	0
## ENSG00000172772	0	0	0	0	0	0
## ENSG00000197786	0	0	0	0	0	0
## ENSG00000172769	0	0	0	0	0	0
## ENSG00000172365	0	0	0	0	0	2
## ENSG00000172362	0	0	0	0	0	0
## ENSG00000198283	0	0	0	0	0	0
## ENSG00000110031	253	317	384	485	559	649
## ENSG00000186660	1201	1509	1848	2230	2559	3132
## ENSG00000255073	0	0	0	0	0	0
## ENSG00000242689	10	6	12	7	13	16
## ENSG00000149124	0	0	0	0	0	0
## ENSG00000156689	2	4	6	1	3	5
## ENSG00000166840	2	3	6	0	0	3
## ENSG00000189057	64	83	122	20	35	20
## ENSG00000166801	283	323	446	202	254	269
## ENSG00000110042	276	314	373	923	1044	1340
## ENSG00000197629	0	0	0	0	0	0
## ENSG00000176495	0	0	0	0	0	0
## ENSG00000172324	0	0	0	0	0	0
## ENSG00000172320	0	0	0	0	0	0

## ENSG00000166884	0	0	0	0	0	0
## ENSG00000254466	0	0	0	0	0	0
## ENSG00000176200	0	0	0	0	0	0
## ENSG00000172742	0	0	0	0	0	0
## ENSG00000110048	1214	1361	1708	1272	1418	1595
## ENSG00000166889	582	719	908	443	531	525
## ENSG00000172289	0	0	0	0	0	0
## ENSG00000166900	206	230	298	557	604	763
## ENSG00000166902	318	370	481	333	350	407
## ENSG00000134812	0	0	0	0	0	0
## ENSG00000134827	0	0	0	0	0	0
## ENSG00000149507	0	0	0	0	0	0
## ENSG00000149516	0	0	0	0	0	0
## ENSG00000149534	0	0	0	0	0	0
## ENSG00000110077	0	0	0	0	0	0
## ENSG00000214787	0	0	0	0	0	1
## ENSG00000110079	0	0	0	0	0	0
## ENSG00000166926	0	0	0	0	0	0
## ENSG00000166927	0	0	0	0	0	0
## ENSG00000166928	0	0	0	0	0	0
## ENSG00000166930	0	0	0	0	0	0
## ENSG00000156738	0	0	0	1	0	0
## ENSG00000071203	0	0	0	0	0	0
## ENSG00000204979	0	0	0	0	0	0
## ENSG00000166959	0	0	0	0	0	0
## ENSG00000214782	0	0	0	0	0	0
## ENSG00000166961	0	0	0	0	0	0
## ENSG00000172689	0	0	0	0	0	0
## ENSG00000110104	459	511	718	554	567	786
## ENSG00000183134	1	2	2	6	13	15
## ENSG00000149506	2	2	4	9	7	11
## ENSG00000110107	1138	1233	1686	1226	1336	1478
## ENSG00000110108	970	1091	1483	1031	1081	1287
## ENSG00000006118	1730	1899	2591	3734	3778	5501
## ENSG00000110446	55	60	75	65	66	83
## ENSG00000013725	0	0	0	0	0	0
## ENSG00000110448	1	0	0	0	0	0
## ENSG00000167987	315	403	469	385	416	473
## ENSG00000229859	0	0	0	0	0	0
## ENSG00000229183	0	0	0	0	0	0
## ENSG00000256713	1	1	0	0	1	2
## ENSG00000167992	15	19	18	91	87	122
## ENSG00000167986	5490	6127	7975	6906	7644	8884
## ENSG00000149476	146	169	227	140	128	179
## ENSG00000162144	407	435	557	631	651	739
## ENSG00000149483	276	288	384	323	335	411
## ENSG00000187049	62	50	75	75	67	76
## ENSG00000149532	864	975	1288	1125	1175	1460
## ENSG00000256591	4	2	5	3	8	4
## ENSG00000167985	87	106	156	131	148	165
## ENSG00000162148	4	5	7	3	8	4
## ENSG00000204950	0	0	0	0	0	3
## ENSG00000011347	33	53	57	72	47	73
## ENSG00000134780	111	139	191	73	80	96

## ENSG00000124920	115	135	178	55	67	81
## ENSG00000134825	471	519	566	728	775	916
## ENSG00000168496	341	464	572	196	225	246
## ENSG00000134824	1639	1932	2366	3326	3226	4455
## ENSG00000149485	827	964	1106	1522	1466	2010
## ENSG00000221968	663	710	905	518	474	580
## ENSG00000167994	36	59	81	83	61	78
## ENSG00000167995	30	32	35	32	32	44
## ENSG00000167996	7823	8086	10534	11476	11657	14711
## ENSG00000149503	452	591	790	264	284	345
## ENSG00000168515	0	0	0	0	0	0
## ENSG00000124939	0	0	0	0	0	0
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## ENSG00000110484	0	0	0	0	0	0
## ENSG00000197745	0	0	0	0	0	0
## ENSG00000162174	2	5	2	4	3	1
## ENSG00000149021	0	0	0	0	0	0
## ENSG00000124942	38946	48630	48147	25100	27984	28071
## ENSG00000254772	0	0	0	0	0	0
## ENSG00000255508	27	30	49	35	54	54
## ENSG00000149016	67	88	130	109	115	125
## ENSG00000149480	1425	1799	2134	1648	1941	2241
## ENSG00000149499	324	387	496	533	588	753
## ENSG00000149489	11	19	28	29	19	28
## ENSG00000149541	571	592	743	1072	996	1379
## ENSG00000089597	8664	9609	12459	10417	11346	13396
## ENSG00000185085	332	358	465	509	582	718
## ENSG00000255432	0	0	0	0	0	0
## ENSG00000278615	3	1	3	3	5	4
## ENSG00000162194	11	19	23	22	28	19
## ENSG00000214756	27	33	41	39	38	45
## ENSG00000204922	66	73	99	51	52	83
## ENSG00000162191	655	751	941	1257	1233	1590
## ENSG00000177363	11	11	17	10	5	16
## ENSG00000234857	11	9	10	8	9	13
## ENSG00000168000	18	21	30	38	31	46
## ENSG00000162188	2	2	0	0	2	3
## ENSG00000214753	643	721	895	492	533	628
## ENSG00000162222	314	343	389	425	423	537
## ENSG00000185670	47	47	61	56	53	70
## ENSG00000168002	412	508	607	573	664	730
## ENSG00000162227	87	68	119	142	153	187
## ENSG00000168569	95	95	157	98	103	138
## ENSG00000185475	234	225	307	379	378	503
## ENSG00000162231	730	814	1086	981	1098	1322
## ENSG00000162236	531	696	831	680	790	840
## ENSG00000133316	153	189	259	197	201	268
## ENSG00000168003	2232	2449	3031	3160	3365	4294
## ENSG00000168539	0	0	0	0	0	0
## ENSG00000197901	0	0	0	0	0	0
## ENSG00000149452	0	0	0	0	0	0
## ENSG00000197658	0	0	0	0	0	0
## ENSG00000184999	0	0	0	0	0	0
## ENSG00000196600	0	0	0	0	0	0

## ENSG00000149742	0	0	0	0	0	0
## ENSG00000168004	0	0	0	0	0	0
## ENSG00000133317	0	0	0	0	0	0
## ENSG00000133321	3	3	1	1	0	2
## ENSG00000133328	0	1	0	0	0	0
## ENSG00000176485	23	35	34	22	28	57
## ENSG00000184743	1938	2318	2584	697	881	836
## ENSG00000133318	2046	2276	2919	434	562	527
## ENSG00000188070	637	621	850	1640	1752	2171
## ENSG00000168005	328	395	526	634	715	952
## ENSG00000072518	520	618	733	606	706	904
## ENSG00000167771	31	26	21	16	28	23
## ENSG00000110583	302	333	424	502	501	610
## ENSG00000176340	766	956	1148	938	982	1087
## ENSG00000256100	0	0	0	0	0	0
## ENSG00000167770	908	1037	1249	1123	1249	1510
## ENSG00000133315	42	48	38	31	51	42
## ENSG00000126500	4	0	5	2	8	5
## ENSG00000168439	3089	3508	4443	3148	3301	4084
## ENSG00000149781	12	15	14	17	19	24
## ENSG00000149743	177	195	270	230	266	349
## ENSG00000149761	197	182	269	286	287	386
## ENSG00000110011	180	196	193	290	301	338
## ENSG00000173511	480	606	750	703	690	804
## ENSG00000173486	354	396	494	522	526	651
## ENSG00000173457	1939	2291	2901	2282	2370	2973
## ENSG00000149782	850	956	1165	981	1057	1316
## ENSG00000002330	234	241	302	297	338	367
## ENSG00000173264	339	354	450	631	644	814
## ENSG00000182450	0	0	0	0	0	0
## ENSG00000219435	0	0	0	1	0	0
## ENSG00000173153	312	373	443	280	261	351
## ENSG00000173113	851	951	1138	1028	1089	1273
## ENSG00000126432	1631	1769	2102	2061	2387	2602
## ENSG00000168071	10	10	7	14	14	11
## ENSG00000162302	787	897	1128	529	647	647
## ENSG00000168065	0	0	0	0	0	0
## ENSG00000197891	0	0	0	0	0	0
## ENSG00000110076	1	1	2	0	0	2
## ENSG00000068831	4	2	0	0	2	2
## ENSG00000068976	1	0	0	0	0	2
## ENSG00000168066	2290	2635	3373	2323	2476	2909
## ENSG00000168067	290	302	380	194	242	299
## ENSG00000133895	438	496	661	194	213	224
## ENSG00000171219	7	3	5	13	16	20
## ENSG00000110047	3309	3850	4927	1730	1865	2271
## ENSG00000110046	485	461	637	853	851	1145
## ENSG00000068971	453	562	659	581	652	768
## ENSG00000149735	0	0	0	0	0	0
## ENSG00000168070	0	0	0	0	0	0
## ENSG00000168062	5	5	16	10	16	6
## ENSG00000213465	236	287	367	281	308	354
## ENSG00000273003	1	0	0	0	0	0
## ENSG00000110025	4	1	4	3	6	5

## ENSG00000168061	122	156	178	165	199	235
## ENSG00000168060	9	8	6	8	2	4
## ENSG00000146670	287	350	487	71	99	89
## ENSG00000162300	63	89	108	70	98	119
## ENSG00000187066	8	3	5	7	3	10
## ENSG00000149823	574	633	791	668	725	914
## ENSG00000149809	45	56	55	88	76	95
## ENSG00000174276	81	75	100	87	93	129
## ENSG00000149806	1823	1967	2419	2051	2285	2510
## ENSG00000162298	611	692	900	1116	1136	1404
## ENSG00000149792	608	647	910	766	871	993
## ENSG00000204710	0	0	0	0	0	1
## ENSG00000014216	3073	3587	4615	3203	3532	4032
## ENSG00000014138	264	345	484	139	181	221
## ENSG00000149798	358	368	469	372	419	490
## ENSG00000133884	678	757	941	905	977	1175
## ENSG00000173825	0	3	1	3	1	3
## ENSG00000162241	26	39	49	57	56	72
## ENSG00000126391	539	635	769	1496	1590	1954
## ENSG00000279576	0	0	0	0	0	0
## ENSG00000142186	1833	2168	2684	2491	2545	3017
## ENSG00000168056	1847	1933	2685	2769	3137	3485
## ENSG00000173465	228	278	337	277	291	343
## ENSG00000176973	76	93	133	172	177	259
## ENSG00000173442	898	1008	1258	900	998	1154
## ENSG00000213445	538	650	823	604	663	808
## ENSG00000173338	3	1	2	4	1	0
## ENSG00000173327	1014	1176	1512	1212	1361	1706
## ENSG00000197136	1352	1544	2048	2106	2069	2603
## ENSG00000173039	1106	1326	1660	573	663	708
## ENSG00000172977	166	207	293	270	271	335
## ENSG00000172922	241	253	323	199	222	259
## ENSG00000254470	250	333	402	331	403	459
## ENSG00000172818	0	0	0	0	0	0
## ENSG00000172757	11723	13117	17158	10943	12451	14347
## ENSG00000172803	8	8	12	14	24	23
## ENSG00000172732	310	396	519	431	425	557
## ENSG00000172638	3612	4110	5492	4107	4910	5663
## ENSG00000172543	3	5	3	1	4	3
## ENSG00000172500	631	711	911	691	700	858
## ENSG00000175602	1300	1614	2199	1386	1535	1867
## ENSG00000175592	2386	2860	3754	2356	2590	3114
## ENSG00000175573	717	848	1077	724	760	808
## ENSG00000175550	2955	3557	4228	2864	3117	3646
## ENSG00000175513	1	1	2	3	2	2
## ENSG00000175467	960	1043	1376	937	996	1189
## ENSG00000175376	293	336	379	507	538	595
## ENSG00000175334	868	1056	1288	941	993	1131
## ENSG00000175315	5	3	0	3	4	5
## ENSG00000175294	3	6	10	3	5	9
## ENSG00000175229	0	0	0	0	1	1
## ENSG00000087365	3117	3526	4531	3375	3670	4272
## ENSG00000175115	1365	1504	2010	825	989	958
## ENSG00000174996	698	756	1082	1278	1323	1783

## ENSG00000174903	1617	1776	2447	1957	2098	2532
## ENSG00000174871	44	56	77	56	57	97
## ENSG00000174851	981	1064	1346	1183	1270	1397
## ENSG00000179292	1	1	4	3	5	4
## ENSG00000174807	6822	7571	9953	6987	7949	8694
## ENSG00000174791	471	583	745	430	503	669
## ENSG00000174744	625	759	899	765	806	1055
## ENSG00000174684	400	454	584	514	587	675
## ENSG00000174669	12	13	19	14	14	21
## ENSG00000174576	2	5	5	0	1	0
## ENSG00000174547	333	420	472	292	295	352
## ENSG00000174516	113	104	169	153	151	162
## ENSG00000254986	832	916	1163	894	949	1146
## ENSG00000256349	0	0	0	0	0	0
## ENSG00000174483	4	4	4	4	5	4
## ENSG00000174165	262	297	359	286	325	377
## ENSG00000248746	0	0	0	2	0	1
## ENSG00000174080	218	242	319	417	441	552
## ENSG00000182791	9	6	14	5	2	11
## ENSG00000173992	200	231	267	252	232	321
## ENSG00000239306	487	640	808	450	487	574
## ENSG00000248643	2	5	6	3	3	9
## ENSG00000173933	51	66	72	47	64	89
## ENSG00000173914	251	274	358	349	365	462
## ENSG00000173898	37	30	45	57	56	60
## ENSG00000173715	92	92	118	49	65	58
## ENSG00000173653	123	155	212	162	210	241
## ENSG00000173599	376	399	541	308	359	391
## ENSG00000173621	306	348	498	417	452	548
## ENSG00000173237	0	0	1	0	0	0
## ENSG00000173227	24	33	59	17	13	11
## ENSG00000173156	74	75	111	80	91	80
## ENSG00000173120	1484	1560	2004	1702	1681	2184
## ENSG00000173020	695	662	987	1021	1107	1510
## ENSG00000172932	263	274	418	676	684	946
## ENSG00000172830	268	282	384	364	428	428
## ENSG00000172613	52	54	79	66	103	117
## ENSG00000175482	112	152	153	243	300	328
## ENSG00000256514	0	0	1	0	0	0
## ENSG00000175505	159	153	181	496	442	568
## ENSG00000172531	1655	1937	2377	2119	2438	2902
## ENSG00000175463	2	4	7	8	6	8
## ENSG00000172508	5	5	4	4	5	6
## ENSG00000175634	470	535	647	258	309	375
## ENSG00000172725	1180	1358	1923	1966	2015	2425
## ENSG00000213402	0	0	0	0	0	0
## ENSG00000175514	0	0	0	0	0	0
## ENSG00000175544	0	0	0	0	0	2
## ENSG00000172663	167	196	218	285	293	372
## ENSG00000110711	365	369	521	414	448	536
## ENSG00000110697	524	573	718	1522	1510	2044
## ENSG00000167797	254	282	392	385	376	462
## ENSG00000167791	0	0	0	0	0	0
## ENSG00000084207	3512	3835	4835	3247	3678	4191

## ENSG00000167792	963	1077	1419	1191	1242	1471
## ENSG00000167799	12	18	26	20	22	28
## ENSG00000167800	0	0	0	0	0	0
## ENSG00000132744	0	0	0	0	0	0
## ENSG00000132746	0	1	1	0	1	0
## ENSG00000110057	199	195	296	352	424	496
## ENSG00000006534	223	236	357	105	129	119
## ENSG00000110717	672	796	1036	688	713	854
## ENSG00000110719	729	815	1053	1289	1354	1661
## ENSG00000110721	68	87	140	152	197	281
## ENSG00000110066	407	418	600	587	656	721
## ENSG00000171067	1628	1828	2343	931	1129	1198
## ENSG00000162337	717	750	965	844	880	1055
## ENSG00000110075	1009	1145	1537	1015	1174	1348
## ENSG00000069482	119	128	196	361	340	496
## ENSG00000132749	18	20	23	3	9	12
## ENSG00000110090	930	998	1314	1137	1353	1562
## ENSG00000197345	206	223	330	250	266	295
## ENSG00000132740	262	291	388	327	326	423
## ENSG00000172938	0	0	0	0	0	0
## ENSG00000172935	488	552	766	239	304	338
## ENSG00000162341	151	180	246	227	251	316
## ENSG00000172927	83	112	141	41	39	56
## ENSG00000110092	24495	29267	35672	22474	25113	27994
## ENSG00000149716	212	213	290	226	251	288
## ENSG00000281781	0	0	0	0	0	0
## ENSG00000162344	0	0	0	0	0	0
## ENSG00000075388	0	0	0	0	0	0
## ENSG00000186895	0	0	0	0	0	0
## ENSG00000131620	201	282	343	63	85	71
## ENSG00000168040	178	215	288	155	113	171
## ENSG00000131626	845	951	1157	908	1013	1179
## ENSG00000085733	5810	6587	8624	5817	6797	7485
## ENSG00000162105	168	205	231	351	310	444
## ENSG00000172893	851	980	1238	1727	1675	2314
## ENSG00000172890	597	684	810	699	745	904
## ENSG00000204572	0	0	0	0	0	0
## ENSG00000244411	0	0	0	0	0	0
## ENSG00000241233	0	0	0	0	0	0
## ENSG00000254997	0	1	0	1	0	1
## ENSG00000204571	0	0	1	0	0	0
## ENSG00000158483	81	85	96	35	35	37
## ENSG00000184276	0	0	0	0	0	0
## ENSG00000254469	11	11	10	10	6	14
## ENSG00000225805	0	0	1	0	3	0
## ENSG00000137522	318	378	442	305	400	410
## ENSG00000137496	29	35	41	34	38	42
## ENSG00000137497	1431	1476	2053	2337	2451	2966
## ENSG00000184154	41	48	51	49	50	44
## ENSG00000149357	929	1034	1416	1576	1610	1928
## ENSG00000110200	76	91	124	95	84	104
## ENSG00000110203	1	2	3	2	5	1
## ENSG00000110195	0	2	0	0	0	1
## ENSG00000165457	0	0	0	0	0	0

## ENSG00000165458	2148	2412	3078	3733	4112	4980
## ENSG00000165462	0	0	0	0	0	0
## ENSG00000162129	271	317	442	198	179	222
## ENSG00000186642	0	0	0	2	2	4
## ENSG00000186635	937	985	1309	1567	1727	1935
## ENSG00000214530	123	148	193	203	202	271
## ENSG00000168010	48	55	63	64	74	88
## ENSG00000137478	464	536	668	485	533	712
## ENSG00000175591	0	2	1	4	3	10
## ENSG00000171631	0	4	4	2	0	0
## ENSG00000110237	2101	2393	3010	2656	2941	3470
## ENSG00000054967	61	84	93	105	131	151
## ENSG00000054965	1194	1404	1653	1035	1224	1329
## ENSG00000021300	4	3	2	8	6	4
## ENSG00000175582	1936	2308	2787	2962	3355	3973
## ENSG00000175581	132	164	222	138	154	185
## ENSG00000181924	418	448	632	425	431	575
## ENSG00000175575	148	168	222	178	158	205
## ENSG00000187726	0	0	0	0	0	0
## ENSG00000175567	55	56	66	6	10	11
## ENSG00000175564	2	7	9	11	4	10
## ENSG00000168014	386	435	564	589	667	800
## ENSG00000214517	914	1055	1389	1180	1338	1460
## ENSG00000149380	227	268	357	438	531	603
## ENSG00000165434	275	351	436	1995	2211	2614
## ENSG00000175538	2	2	1	2	0	1
## ENSG00000175536	2	8	11	6	5	12
## ENSG00000077514	149	208	236	131	163	167
## ENSG00000054938	22	31	37	37	33	49
## ENSG00000166439	331	384	431	269	331	371
## ENSG00000166435	88	89	119	53	63	68
## ENSG00000118363	491	636	722	592	664	779
## ENSG00000162139	179	210	262	140	164	179
## ENSG00000171561	0	0	0	0	0	0
## ENSG00000137491	0	1	0	1	1	3
## ENSG00000261594	0	0	1	3	3	1
## ENSG00000137486	171	198	291	157	199	217
## ENSG00000149273	7928	8773	11063	7876	8785	9882
## ENSG00000149243	19	18	27	19	29	22
## ENSG00000158555	131	150	223	121	148	144
## ENSG00000149257	17289	18217	23512	13654	15506	16591
## ENSG00000171533	69	77	90	95	81	100
## ENSG00000166391	0	0	0	0	0	0
## ENSG00000062282	22	26	42	44	24	32
## ENSG00000198382	216	257	347	321	340	461
## ENSG00000085741	0	0	0	2	2	2
## ENSG00000137492	599	676	837	308	382	406
## ENSG00000179240	16	11	11	9	13	13
## ENSG00000158636	325	320	457	392	420	514
## ENSG00000137507	252	272	391	296	427	373
## ENSG00000182704	347	401	553	327	427	462
## ENSG00000078124	213	266	336	131	161	193
## ENSG00000198488	0	0	0	0	0	0
## ENSG00000149260	546	685	841	568	669	760



## ENSG00000254550	1	0	5	0	0	1
## ENSG00000137474	1	0	2	2	2	2
## ENSG00000178795	0	0	0	0	0	0
## ENSG00000149269	679	748	1044	280	383	357
## ENSG00000074201	639	683	881	918	997	1171
## ENSG00000178301	32	41	43	23	27	38
## ENSG00000048649	988	1085	1363	1556	1825	2070
## ENSG00000087884	95	105	148	175	197	205
## ENSG00000149262	310	361	442	288	344	387
## ENSG00000151364	1	1	1	2	2	6
## ENSG00000259112	0	0	0	0	0	0
## ENSG00000151365	1	0	1	0	0	0
## ENSG00000151366	229	287	333	287	328	381
## ENSG00000159063	359	432	565	451	488	563
## ENSG00000188997	215	212	319	187	175	205
## ENSG00000118369	168	231	280	191	236	268
## ENSG00000033327	250	315	331	368	470	498
## ENSG00000137513	157	141	175	153	166	209
## ENSG00000149256	621	743	892	631	716	711
## ENSG00000182103	0	0	0	1	0	0
## ENSG00000137509	1040	1199	1480	1082	1361	1475
## ENSG00000165490	105	123	195	39	34	33
## ENSG00000137502	246	319	325	371	406	478
## ENSG00000165494	385	365	490	445	503	556
## ENSG00000137494	196	268	292	480	501	601
## ENSG00000137500	574	682	801	479	504	639
## ENSG00000150672	5	8	8	6	2	9
## ENSG00000171204	269	280	356	233	301	277
## ENSG00000171202	186	212	259	163	201	230
## ENSG00000137504	376	345	444	466	541	693
## ENSG00000179071	25	15	25	7	7	16
## ENSG00000137501	523	663	751	130	189	189
## ENSG00000150676	0	0	0	0	0	0
## ENSG00000073921	4605	5530	7079	3663	4292	4818
## ENSG00000074266	167	186	232	152	143	210
## ENSG00000149196	289	368	416	345	421	459
## ENSG00000149201	35	45	62	6	12	8
## ENSG00000151376	75	76	88	76	100	109
## ENSG00000150687	2997	3381	4280	3152	3813	4129
## ENSG00000174804	181	166	213	237	250	271
## ENSG00000166575	181	210	260	188	211	268
## ENSG00000123892	44	37	51	19	22	15
## ENSG00000109861	3169	3656	4528	6752	8008	8953
## ENSG00000168959	0	0	0	0	0	0
## ENSG00000077498	0	1	0	0	0	0
## ENSG00000086991	57	70	119	202	199	291
## ENSG00000214414	0	0	0	0	0	0
## ENSG00000168930	0	0	0	0	0	0
## ENSG00000189253	0	0	0	0	0	0
## ENSG00000223417	0	0	0	0	0	0
## ENSG00000233802	0	0	0	0	0	0
## ENSG00000204450	0	0	0	0	0	0
## ENSG00000204449	0	0	0	0	0	0
## ENSG00000255009	0	0	0	0	0	0

## ENSG00000077616	6	5	6	9	13	12
## ENSG00000110172	604	698	802	457	518	641
## ENSG00000165323	37	43	69	49	47	58
## ENSG00000134640	2	5	5	2	1	0
## ENSG00000180773	271	352	417	369	459	594
## ENSG00000165325	0	0	0	0	0	0
## ENSG00000166002	36	54	65	21	30	26
## ENSG00000166004	178	159	201	145	139	207
## ENSG00000166012	578	680	798	551	656	744
## ENSG00000182919	170	229	260	230	268	352
## ENSG00000042429	414	462	605	770	804	952
## ENSG00000214376	3	5	8	1	0	0
## ENSG00000181333	3	10	7	2	3	4
## ENSG00000110218	1068	1314	1539	1123	1168	1517
## ENSG00000183560	0	0	0	0	0	0
## ENSG00000123901	1	0	6	2	1	0
## ENSG00000020922	210	301	321	158	184	183
## ENSG00000168876	84	88	119	103	124	158
## ENSG00000134627	8	6	9	6	4	8
## ENSG00000196371	78	109	138	128	122	156
## ENSG00000166025	1765	2103	2513	1888	2324	2334
## ENSG00000150316	451	535	708	511	606	705
## ENSG00000186280	12	11	14	6	10	6
## ENSG00000235268	0	0	0	0	0	0
## ENSG00000263465	324	372	480	428	537	604
## ENSG00000149218	540	581	776	107	125	134
## ENSG00000149212	282	259	376	75	75	75
## ENSG00000077458	95	120	131	223	245	278
## ENSG00000166037	361	440	476	415	479	534
## ENSG00000087053	1136	1332	1632	1532	1752	1909
## ENSG00000184384	593	748	878	705	898	967
## ENSG00000149231	280	356	451	471	559	643
## ENSG00000183340	241	231	291	231	252	272
## ENSG00000149972	0	0	0	0	0	0
## ENSG00000165895	116	142	170	235	254	315
## ENSG00000170647	23	32	47	57	78	76
## ENSG00000082175	0	0	0	0	0	3
## ENSG00000137672	105	114	124	62	103	105
## ENSG00000187151	0	0	1	0	0	1
## ENSG00000110318	76	103	120	125	148	134
## ENSG00000137691	15	17	13	11	16	18
## ENSG00000137693	3116	3724	4696	3749	4424	5040
## ENSG00000023445	131	129	151	17	23	21
## ENSG00000110330	1350	1660	1983	2192	2435	3172
## ENSG00000152558	2315	2726	3379	3100	3606	4205
## ENSG00000137673	0	0	1	0	1	3
## ENSG00000137674	0	0	0	0	0	0
## ENSG00000137675	0	0	0	0	0	0
## ENSG00000118113	2	2	3	0	0	2
## ENSG00000166670	6	15	11	105	83	177
## ENSG00000196611	5088	5647	7537	16270	15512	23787
## ENSG00000149968	53	87	91	1120	834	1762
## ENSG00000262406	1	5	8	7	6	24
## ENSG00000137745	0	0	1	6	4	5

## ENSG00000137692	558	577	744	456	483	592
## ENSG00000187240	412	452	492	707	716	840
## ENSG00000170962	110	112	179	671	791	954
## ENSG00000170967	0	0	0	0	0	0
## ENSG00000196954	721	782	996	2250	2419	3146
## ENSG00000137757	0	0	0	1	0	1
## ENSG00000137752	123	122	143	402	502	584
## ENSG00000204397	100	111	122	177	197	200
## ENSG00000255221	0	0	0	0	0	0
## ENSG00000255501	0	0	0	0	1	0
## ENSG00000152578	17	20	27	574	647	773
## ENSG00000170903	370	419	512	662	708	817
## ENSG00000182359	19	22	39	29	26	37
## ENSG00000149313	565	646	804	795	897	1070
## ENSG00000152402	1	0	1	5	14	5
## ENSG00000152404	134	127	201	135	172	199
## ENSG00000137760	160	162	219	126	115	137
## ENSG00000110675	9	24	30	16	10	16
## ENSG00000170290	0	0	1	0	0	0
## ENSG00000110660	154	174	232	161	161	239
## ENSG00000179331	0	0	0	0	0	0
## ENSG00000166266	684	752	899	745	801	998
## ENSG00000075239	596	672	879	498	548	611
## ENSG00000149308	198	248	305	432	441	483
## ENSG00000149311	745	876	1038	1377	1642	1805
## ENSG00000166323	2	5	7	5	6	7
## ENSG00000178202	1151	1332	1769	585	767	748
## ENSG00000110723	10	12	10	8	12	16
## ENSG00000178105	349	414	514	1505	1565	1953
## ENSG00000185742	4	5	9	11	19	17
## ENSG00000149289	229	287	304	232	223	287
## ENSG00000137710	1894	2122	2771	1639	1986	2119
## ENSG00000137714	206	232	310	290	373	400
## ENSG00000137727	94	97	129	72	72	80
## ENSG00000150750	0	0	0	0	0	0
## ENSG00000214290	0	2	0	0	0	0
## ENSG00000110777	0	0	0	0	1	0
## ENSG00000137707	1	0	1	0	0	0
## ENSG00000183644	4	11	6	7	9	5
## ENSG00000204381	1019	1115	1444	882	1093	1136
## ENSG00000170145	685	738	876	1172	1233	1540
## ENSG00000137713	570	698	808	382	407	415
## ENSG00000086848	117	102	128	106	143	183
## ENSG00000258529	0	0	0	0	0	0
## ENSG00000255561	15	17	25	16	24	14
## ENSG00000137720	28	39	68	44	46	58
## ENSG00000109846	96	117	166	48	40	58
## ENSG00000170276	0	1	3	0	0	0
## ENSG00000254445	0	0	0	0	0	0
## ENSG00000149300	0	0	0	0	0	0
## ENSG00000150764	362	460	489	124	162	209
## ENSG00000150768	685	845	1034	1005	1133	1317
## ENSG00000150773	4	10	6	3	3	3
## ENSG00000150776	431	461	603	440	478	591

## ENSG00000150779	301	327	490	325	333	377
## ENSG00000204370	452	584	658	555	604	721
## ENSG00000255292	0	1	0	0	0	0
## ENSG00000150782	4	12	10	4	2	2
## ENSG00000150783	0	0	2	0	0	0
## ENSG00000197580	0	0	8	2	2	5
## ENSG00000150787	254	307	409	380	428	513
## ENSG00000188771	0	0	0	1	1	0
## ENSG00000149294	1	1	0	1	1	0
## ENSG00000149292	66	68	80	40	54	44
## ENSG00000170209	0	0	0	0	0	0
## ENSG00000149295	0	0	0	1	0	0
## ENSG00000166682	0	0	1	0	0	5
## ENSG00000086827	339	387	509	317	425	469
## ENSG00000228607	0	0	0	0	0	0
## ENSG00000048028	223	243	284	92	114	115
## ENSG00000149305	0	0	0	0	0	0
## ENSG00000166736	0	0	0	0	0	0
## ENSG00000109906	0	0	0	0	0	0
## ENSG00000166741	421	413	431	112	137	110
## ENSG00000180425	17	14	21	17	11	22
## ENSG00000282682	0	0	0	0	0	0
## ENSG00000076053	323	378	417	490	566	573
## ENSG00000255663	0	0	0	0	0	1
## ENSG00000076043	1136	1283	1602	1090	1199	1262
## ENSG00000095110	0	2	0	0	0	0
## ENSG00000137634	0	0	0	0	1	0
## ENSG00000204361	0	0	0	0	2	1
## ENSG00000182985	2085	2298	2871	4867	5359	6004
## ENSG00000137656	138	132	178	173	161	182
## ENSG00000109917	679	789	1021	794	809	974
## ENSG00000110243	0	0	0	0	0	0
## ENSG00000110244	0	0	0	0	0	0
## ENSG00000110245	0	0	0	0	0	0
## ENSG00000118137	3	0	0	3	4	1
## ENSG00000160584	465	510	661	824	872	1140
## ENSG00000168092	1593	1931	2473	1333	1675	1765
## ENSG00000149577	780	833	1037	925	940	1100
## ENSG00000149591	12589	14083	18341	3318	4596	3844
## ENSG00000160613	745	889	1166	873	943	1090
## ENSG00000167257	210	194	311	281	313	355
## ENSG00000186318	1630	1966	2352	1453	1806	1921
## ENSG00000110274	548	624	741	498	569	707
## ENSG00000177103	0	0	0	0	0	0
## ENSG00000137731	0	0	0	0	0	0
## ENSG00000137726	2	1	2	2	3	4
## ENSG00000255245	0	0	0	0	0	0
## ENSG00000137747	0	0	0	0	0	0
## ENSG00000110324	0	0	0	0	0	1
## ENSG00000279906	0	0	0	0	0	0
## ENSG00000137648	0	0	0	0	0	0
## ENSG00000177098	46	60	75	102	103	134
## ENSG00000149575	6	10	9	7	6	10
## ENSG00000160593	0	0	0	0	0	0

## ENSG00000160588	16	18	15	8	17	10
## ENSG00000149573	0	0	0	0	0	0
## ENSG00000198851	0	0	0	0	0	0
## ENSG00000167286	0	0	0	0	0	0
## ENSG00000160654	0	0	0	0	0	0
## ENSG00000110344	861	943	1230	974	1137	1313
## ENSG00000167283	913	960	1282	1280	1383	1640
## ENSG00000118058	932	1136	1087	784	753	796
## ENSG00000172425	4	2	5	5	0	4
## ENSG00000149582	254	269	363	306	346	419
## ENSG00000118096	283	264	350	190	226	241
## ENSG00000095139	5357	6065	7895	6272	7229	7965
## ENSG00000019144	2360	2721	3467	4277	4380	5667
## ENSG00000118094	6	10	8	16	22	20
## ENSG00000110367	2573	2977	3555	2667	3105	3440
## ENSG00000160683	0	0	0	0	0	0
## ENSG00000186174	1720	1919	2552	2162	2312	2831
## ENSG00000110375	3	3	3	3	0	3
## ENSG00000176302	0	1	0	0	0	0
## ENSG00000186166	81	85	147	115	129	120
## ENSG00000118181	3383	4120	4677	3268	3571	4129
## ENSG00000196655	416	447	589	543	575	663
## ENSG00000137700	83	99	111	62	46	69
## ENSG00000149428	3690	3919	5044	6414	6644	8348
## ENSG00000160695	424	438	603	537	574	728
## ENSG00000256269	344	444	559	232	277	306
## ENSG00000188486	689	859	1205	378	486	559
## ENSG00000172269	509	512	677	824	882	1028
## ENSG00000172375	197	230	296	396	360	491
## ENSG00000172273	116	116	190	188	186	217
## ENSG00000172350	4	4	8	6	6	8
## ENSG00000160703	133	157	196	95	119	125
## ENSG00000172367	0	0	0	0	0	0
## ENSG00000248712	5	5	6	4	2	4
## ENSG00000110395	1009	1376	1317	733	774	886
## ENSG00000076706	2012	2364	3026	809	952	1012
## ENSG00000173456	627	753	956	612	704	932
## ENSG00000259159	0	0	1	0	1	0
## ENSG00000223953	0	0	0	0	0	0
## ENSG00000235718	0	0	0	0	0	0
## ENSG00000036672	8	8	16	5	10	2
## ENSG00000154096	8902	10099	12987	6117	7123	7257
## ENSG00000110400	183	205	275	356	387	471
## ENSG00000137699	1	0	1	0	1	6
## ENSG00000184232	853	996	1333	1576	1536	2032
## ENSG00000137709	0	0	1	0	0	0
## ENSG00000181264	180	152	182	214	269	281
## ENSG00000196914	3742	4608	5169	6588	7476	8987
## ENSG00000149403	18	18	18	73	60	76
## ENSG00000154114	355	365	479	805	915	1109
## ENSG00000109927	7	5	12	5	2	8
## ENSG00000109929	561	587	772	911	960	1297
## ENSG00000137642	111	179	189	117	107	112
## ENSG00000259571	0	0	3	1	0	1

## ENSG00000154127	1437	1649	2058	2469	2749	3361
## ENSG00000109943	1	0	0	0	0	1
## ENSG00000109944	23	39	45	16	18	18
## ENSG00000188909	0	0	0	0	0	0
## ENSG00000109971	22577	26149	33282	25407	26633	32978
## ENSG00000166250	2889	3386	4255	3261	3519	4281
## ENSG00000023171	136	161	174	86	91	131
## ENSG00000166257	5	6	5	8	11	3
## ENSG00000166261	115	136	176	153	185	200
## ENSG00000221931	0	0	0	0	0	0
## ENSG00000196099	0	0	0	0	0	0
## ENSG00000204300	0	0	0	0	0	0
## ENSG00000181518	0	0	0	0	0	0
## ENSG00000171014	0	0	0	0	0	0
## ENSG00000181499	0	0	0	0	0	0
## ENSG00000196248	0	0	0	0	0	0
## ENSG00000198674	0	0	0	0	0	0
## ENSG00000254737	0	0	0	0	0	0
## ENSG00000236981	0	0	0	0	0	0
## ENSG00000234560	0	0	0	0	0	0
## ENSG00000182634	0	0	0	0	0	0
## ENSG00000110002	64	75	88	1713	1538	2301
## ENSG00000197309	0	0	0	0	0	0
## ENSG00000197849	0	0	0	0	0	0
## ENSG00000255298	0	0	0	0	0	0
## ENSG00000196341	0	0	0	1	3	1
## ENSG00000197263	0	0	0	0	0	0
## ENSG00000204293	0	0	0	0	0	0
## ENSG00000196661	0	0	0	0	0	0
## ENSG00000198657	0	0	0	0	0	0
## ENSG00000197125	0	0	0	0	0	0
## ENSG00000170953	0	0	0	0	0	0
## ENSG00000196119	0	0	0	0	0	0
## ENSG00000154143	0	0	0	1	0	1
## ENSG00000154144	332	358	439	524	538	695
## ENSG00000110013	206	226	283	276	324	402
## ENSG00000064199	43	64	66	45	46	53
## ENSG00000154146	160	210	278	123	121	152
## ENSG00000019102	3	5	2	2	3	8
## ENSG00000149564	4	4	5	11	14	7
## ENSG00000120458	108	89	134	143	149	186
## ENSG00000279342	2	3	1	4	3	2
## ENSG00000154134	153	180	218	120	127	160
## ENSG00000154133	25	40	50	21	13	19
## ENSG00000165478	1	0	0	0	1	0
## ENSG00000221932	0	0	0	0	0	0
## ENSG00000149548	54	49	63	9	7	13
## ENSG00000134955	18	38	34	10	12	20
## ENSG00000150433	107	138	193	156	192	174
## ENSG00000165495	59	68	68	31	44	37
## ENSG00000149557	382	456	560	483	493	572
## ENSG00000149547	1550	2036	2440	2810	3017	3589
## ENSG00000134910	3973	4309	5692	5652	6104	7101
## ENSG00000149554	292	389	486	135	175	179

## ENSG00000134940	4	6	1	0	0	2
## ENSG00000171053	0	0	0	0	0	0
## ENSG00000196844	0	0	0	0	0	0
## ENSG00000236027	0	0	0	0	0	0
## ENSG00000237353	0	0	0	0	0	0
## ENSG00000198331	82	90	117	36	51	58
## ENSG00000110060	96	115	128	144	178	210
## ENSG00000109832	0	0	0	0	0	0
## ENSG00000064309	40	43	47	26	35	29
## ENSG00000165526	211	266	328	261	297	349
## ENSG00000197798	282	269	339	240	235	277
## ENSG00000182934	3102	3588	4423	4451	4755	5513
## ENSG00000110074	143	174	219	112	137	168
## ENSG00000150455	62	52	84	81	94	112
## ENSG00000110063	135	140	194	99	121	132
## ENSG00000110080	166	206	249	211	209	238
## ENSG00000149571	215	245	344	92	107	100
## ENSG00000134954	1567	1956	2451	2210	2565	2963
## ENSG00000151702	149	190	239	261	286	299
## ENSG00000151704	0	0	0	0	0	0
## ENSG00000120457	5	4	3	1	0	0
## ENSG00000174370	6	13	16	1	2	1
## ENSG00000120471	1	0	0	0	0	1
## ENSG00000134909	214	248	304	318	394	440
## ENSG00000043039	0	0	0	0	0	0
## ENSG00000151715	0	1	4	0	1	1
## ENSG00000170322	339	415	520	390	499	561
## ENSG00000170325	171	165	228	219	249	243
## ENSG00000084234	4835	5490	7025	7562	8497	10195
## ENSG00000149418	0	0	1	0	0	0
## ENSG00000196323	257	302	343	236	284	295
## ENSG00000134917	64	55	66	37	42	39
## ENSG00000166106	126	96	146	139	187	196
## ENSG00000120451	2008	2181	2792	2775	2876	3352
## ENSG00000182667	730	818	1041	533	595	663
## ENSG00000183715	10	11	27	9	15	15
## ENSG00000166118	0	0	0	0	0	0
## ENSG00000080854	1	0	1	1	1	2
## ENSG00000166086	1267	1468	1918	461	566	627
## ENSG00000151503	542	608	818	229	299	302
## ENSG00000151502	902	1020	1341	983	1088	1176
## ENSG00000151500	200	196	289	182	223	299
## ENSG00000151498	184	202	304	494	524	648
## ENSG00000166105	0	0	0	1	0	0
## ENSG00000149328	1	1	2	2	1	2
## ENSG00000109956	0	0	0	2	1	0
## ENSG00000261456	2	0	4	0	0	0
## ENSG00000015171	1194	1451	1726	1388	1497	1853
## ENSG00000151240	993	1187	1460	1541	1704	1942
## ENSG00000180525	28	32	24	7	11	13
## ENSG00000107929	884	1055	1317	722	837	887
## ENSG00000107937	1152	1493	1807	1046	1138	1304
## ENSG00000148377	0	1	0	0	1	0
## ENSG00000067064	540	619	761	1303	1448	1785

## ENSG00000047056	524	607	744	1198	1342	1620
## ENSG00000185736	0	1	0	1	0	0
## ENSG00000067057	4014	4785	6024	2865	3369	3964
## ENSG00000107959	2295	2563	3559	1183	1494	1570
## ENSG00000067082	2005	2915	3696	1806	2657	2698
## ENSG00000165568	8	12	19	7	12	6
## ENSG00000151632	17	24	25	69	65	107
## ENSG00000187134	126	150	155	587	574	892
## ENSG00000196139	5	6	5	11	19	20
## ENSG00000198610	0	0	0	0	0	0
## ENSG00000178473	0	0	0	0	0	0
## ENSG00000178462	0	0	0	0	0	0
## ENSG00000173848	440	472	622	154	203	192
## ENSG00000178372	0	0	0	0	0	0
## ENSG00000178363	0	0	0	0	0	0
## ENSG00000196372	80	113	134	159	187	234
## ENSG00000108021	1177	1300	1632	1170	1359	1488
## ENSG00000057608	4126	4712	5886	2250	2600	2798
## ENSG00000134461	44	44	62	59	73	79
## ENSG00000134452	882	963	1267	1212	1354	1586
## ENSG00000134470	67	80	122	234	226	313
## ENSG00000134460	0	0	0	0	0	0
## ENSG00000134453	698	817	988	879	953	1134
## ENSG00000170525	966	1051	1348	2506	2758	3518
## ENSG00000065675	0	1	1	3	4	2
## ENSG00000198879	35	49	71	90	91	129
## ENSG00000123243	13	9	11	16	13	13
## ENSG00000151655	1	2	1	0	2	2
## ENSG00000151657	139	160	228	160	228	215
## ENSG00000165629	1633	2110	2527	1331	1524	1655
## ENSG00000165632	211	209	252	239	292	287
## ENSG00000107485	1	3	8	8	15	15
## ENSG00000048740	182	208	256	366	386	471
## ENSG00000148429	277	312	375	211	240	300
## ENSG00000134463	17	29	28	7	11	13
## ENSG00000148426	38	34	47	58	83	88
## ENSG00000151461	702	769	952	796	892	1027
## ENSG00000181192	317	371	467	309	404	445
## ENSG00000065665	124	146	169	123	144	185
## ENSG00000165609	495	559	668	549	651	770
## ENSG00000151465	762	930	1083	610	646	797
## ENSG00000183049	233	262	262	338	314	426
## ENSG00000151468	11	15	24	31	31	30
## ENSG00000123240	2004	2118	2574	1529	1746	1998
## ENSG00000065328	146	161	215	31	32	31
## ENSG00000165623	0	0	0	0	0	0
## ENSG00000107537	144	177	195	262	272	314
## ENSG00000086475	637	713	945	630	720	887
## ENSG00000165626	94	110	112	45	70	70
## ENSG00000165630	78	107	128	110	101	159
## ENSG00000282246	0	0	0	1	0	0
## ENSG00000151474	994	1109	1454	2045	2110	2671
## ENSG00000065809	935	1093	1321	747	887	1029
## ENSG00000185267	5	8	10	8	7	7



## ENSG00000187522	292	379	453	481	528	652
## ENSG00000152455	104	126	141	87	99	90
## ENSG00000152457	100	107	136	104	141	166
## ENSG00000197889	0	2	1	1	1	2
## ENSG00000152463	2	1	0	2	6	7
## ENSG00000176244	6	4	6	1	2	2
## ENSG00000152464	66	62	91	105	109	120
## ENSG00000152465	342	435	494	244	299	324
## ENSG00000148468	740	778	1110	988	990	1260
## ENSG00000077943	33	35	30	287	267	376
## ENSG00000148481	398	432	559	575	668	763
## ENSG00000165983	31	40	42	22	30	39
## ENSG00000165985	0	0	3	2	1	3
## ENSG00000148484	2439	2840	3419	1569	2002	2067
## ENSG00000107611	17	13	28	13	9	14
## ENSG00000107614	66	86	100	50	67	96
## ENSG00000026025	27665	32434	41465	17246	20630	22571
## ENSG00000148488	1	1	5	3	4	8
## ENSG00000165996	254	278	393	110	110	116
## ENSG00000136738	500	567	750	414	480	564
## ENSG00000148483	1	0	3	2	2	1
## ENSG00000260314	0	0	0	0	0	0
## ENSG00000148482	1	0	0	0	0	0
## ENSG00000165995	12	6	9	17	16	24
## ENSG00000241058	65	69	78	63	71	75
## ENSG00000165997	505	539	758	1348	1667	2122
## ENSG00000204740	1	5	8	3	5	3
## ENSG00000120594	494	534	645	837	922	1036
## ENSG00000078114	0	0	0	0	1	0
## ENSG00000204683	0	0	0	0	0	0
## ENSG00000204682	73	67	86	39	41	42
## ENSG00000180592	7	17	22	3	8	9
## ENSG00000078403	342	390	466	328	380	403
## ENSG00000136770	379	434	481	364	465	450
## ENSG00000223601	0	0	0	0	0	0
## ENSG00000148444	83	86	108	185	174	158
## ENSG00000269897	0	0	0	0	0	0
## ENSG00000168283	310	387	444	424	451	593
## ENSG00000077327	0	0	0	0	0	1
## ENSG00000150867	539	683	874	552	628	697
## ENSG00000165309	0	0	0	0	0	0
## ENSG00000148450	151	164	184	130	143	148
## ENSG00000168267	0	0	0	0	0	0
## ENSG00000179133	1	3	2	2	2	3
## ENSG00000165312	71	61	72	113	116	127
## ENSG00000120549	211	252	286	217	256	237
## ENSG00000107863	1794	2115	2600	2594	2882	3460
## ENSG00000099256	143	171	177	123	118	151
## ENSG00000151023	0	0	2	2	4	3
## ENSG00000185875	63	52	75	44	45	81
## ENSG00000151025	0	0	0	0	1	1
## ENSG00000095777	0	0	0	0	0	0
## ENSG00000136750	0	0	0	0	0	0
## ENSG00000077420	0	0	2	0	3	3

## ENSG00000148459	83	85	120	36	52	63
## ENSG00000136754	709	760	1020	824	984	1181
## ENSG00000107890	250	259	359	232	273	308
## ENSG00000136758	3107	3411	4192	3415	3841	4464
## ENSG00000120539	172	189	268	121	162	164
## ENSG00000107897	366	381	442	444	550	569
## ENSG00000182077	0	0	0	0	0	0
## ENSG00000099246	1321	1520	1837	2142	2469	2897
## ENSG00000150051	7	8	8	4	5	3
## ENSG00000169126	12	9	8	3	2	5
## ENSG00000150054	19	19	26	3	4	8
## ENSG00000095787	1370	1641	2070	1547	1760	2027
## ENSG00000095739	129	169	196	377	344	430
## ENSG00000120563	0	0	0	0	0	0
## ENSG00000197321	1641	1777	2138	6263	6530	8039
## ENSG00000165757	2883	3641	4106	2764	3328	3461
## ENSG00000107951	211	216	328	312	279	361
## ENSG00000107968	9	10	15	31	26	42
## ENSG00000151033	0	0	0	0	0	0
## ENSG00000183621	43	40	60	90	89	114
## ENSG00000148516	2386	2599	3248	4048	4504	5572
## ENSG00000165322	473	499	566	486	546	576
## ENSG00000170759	4764	5704	7182	2290	2773	3056
## ENSG00000120616	205	204	317	290	289	343
## ENSG00000216937	13	15	13	4	9	9
## ENSG00000150076	4	0	0	2	4	3
## ENSG00000150093	40281	45826	57675	33158	40430	44462
## ENSG00000099250	5363	6238	8005	4241	4704	5348
## ENSG00000148498	480	539	713	770	855	1059
## ENSG00000108094	782	969	1110	539	657	740
## ENSG00000095794	228	251	312	312	373	407
## ENSG00000108100	1168	1380	1822	1152	1424	1639
## ENSG00000177291	0	1	2	0	1	2
## ENSG00000177283	233	267	372	1081	1170	1457
## ENSG00000148513	0	0	0	0	0	0
## ENSG00000256892	0	0	0	0	0	0
## ENSG00000198105	103	97	105	152	173	219
## ENSG00000175395	211	226	273	251	310	349
## ENSG00000189180	164	164	204	357	397	500
## ENSG00000075407	347	398	464	443	530	557
## ENSG00000196693	106	111	139	234	248	319
## ENSG00000165733	1052	1179	1496	989	1188	1270
## ENSG00000165731	2	3	7	15	16	17
## ENSG00000169826	751	831	952	2784	2896	4055
## ENSG00000198915	2	3	2	3	1	3
## ENSG00000150201	0	0	0	0	0	0
## ENSG00000169813	1785	2133	2661	2618	2813	3488
## ENSG00000243660	17	18	24	30	39	38
## ENSG00000196793	63	68	84	41	44	63
## ENSG00000198298	17	16	32	21	20	30
## ENSG00000169740	158	145	188	176	253	266
## ENSG00000277288	0	0	0	0	0	0
## ENSG00000107562	216	263	369	142	167	206
## ENSG00000187783	0	0	0	0	0	0

## ENSG00000107551	107	106	132	56	57	54
## ENSG00000165507	139	150	179	43	44	47
## ENSG00000165512	129	162	210	126	146	176
## ENSG00000256574	0	0	0	0	0	0
## ENSG00000012779	0	0	0	0	0	0
## ENSG00000165406	395	418	529	510	531	695
## ENSG00000172671	40	30	48	34	29	52
## ENSG00000172661	650	693	891	988	1131	1176
## ENSG00000188234	16	25	38	21	19	39
## ENSG00000265354	768	962	1133	859	962	1132
## ENSG00000266412	2719	3142	3847	3771	4258	5069
## ENSG00000263639	0	1	0	0	0	0
## ENSG00000274209	1	0	1	1	0	0
## ENSG00000279058	0	1	2	3	0	2
## ENSG00000264230	32	47	50	27	24	42
## ENSG00000204174	0	0	1	0	0	1
## ENSG00000204175	0	1	0	0	0	0
## ENSG00000204176	4	11	9	8	10	6
## ENSG00000204179	0	0	2	0	0	0
## ENSG00000266524	4	4	9	11	15	19
## ENSG00000263761	0	2	1	0	0	0
## ENSG00000265203	0	0	0	0	0	0
## ENSG00000265763	3	2	4	5	3	1
## ENSG00000265190	1	2	1	2	1	2
## ENSG00000189090	0	0	0	0	0	0
## ENSG00000204172	22	22	32	33	32	27
## ENSG00000277758	17	17	14	14	16	26
## ENSG00000276430	0	0	0	0	0	0
## ENSG00000170324	0	0	0	0	0	2
## ENSG00000107643	375	477	631	723	842	1022
## ENSG00000128805	972	1209	1611	912	1020	1113
## ENSG00000128815	0	0	0	0	0	0
## ENSG00000165383	0	0	0	0	0	0
## ENSG00000165633	143	187	243	96	133	107
## ENSG00000172538	0	0	0	0	0	0
## ENSG00000204161	0	1	0	1	0	0
## ENSG00000177354	0	0	0	0	0	0
## ENSG00000165606	0	0	5	1	0	0
## ENSG00000225830	116	113	131	122	162	161
## ENSG00000243251	1	0	0	0	0	0
## ENSG00000258838	0	0	0	0	0	0
## ENSG00000070748	0	0	0	0	0	0
## ENSG00000187714	0	0	0	0	0	0
## ENSG00000178645	0	0	0	0	0	0
## ENSG00000197444	1	4	1	1	5	3
## ENSG00000227345	310	405	449	367	451	523
## ENSG00000204152	105	141	188	140	161	174
## ENSG00000204149	61	66	59	75	92	71
## ENSG00000099290	594	744	942	956	1033	1297
## ENSG00000188611	16	17	23	36	46	36
## ENSG00000198964	331	417	515	310	355	409
## ENSG00000204147	46	59	51	87	101	110
## ENSG00000148584	0	0	0	0	0	0
## ENSG00000185532	398	404	527	1047	1277	1497

## ENSG00000177613	372	439	550	464	518	554
## ENSG00000107984	768	977	1259	696	769	886
## ENSG00000165471	0	0	0	0	0	0
## ENSG00000150275	0	0	0	0	0	0
## ENSG00000249860	0	0	0	0	0	0
## ENSG00000122952	502	542	719	202	269	317
## ENSG00000151151	102	122	117	268	371	447
## ENSG00000122873	239	309	340	315	414	399
## ENSG00000072401	258	269	367	825	895	1166
## ENSG00000108064	331	358	457	276	325	409
## ENSG00000122870	844	970	1180	1563	1768	2172
## ENSG00000165443	0	0	0	0	0	1
## ENSG00000148541	26	18	31	16	26	22
## ENSG00000165449	5	8	5	9	6	10
## ENSG00000227877	1	0	0	0	0	0
## ENSG00000108091	1460	1615	2033	1099	1411	1611
## ENSG00000151150	21	21	43	10	7	14
## ENSG00000170312	344	417	531	59	75	85
## ENSG00000072422	306	335	406	369	490	512
## ENSG00000196932	13	26	25	140	168	214
## ENSG00000183346	2	3	0	5	9	5
## ENSG00000150347	3920	4387	5399	3948	4812	5234
## ENSG00000182010	57	52	75	20	39	31
## ENSG00000138311	90	98	138	76	87	97
## ENSG00000181915	351	450	524	532	640	826
## ENSG00000122877	37	54	74	102	143	160
## ENSG00000148572	425	501	628	547	593	639
## ENSG00000171988	791	732	921	1491	1637	1867
## ENSG00000165476	1154	1319	1585	1445	1536	1988
## ENSG00000183230	0	3	0	0	0	0
## ENSG00000198739	0	0	0	0	0	0
## ENSG00000108176	13	18	22	40	23	49
## ENSG00000096717	323	370	462	512	560	664
## ENSG00000148634	2139	2475	3291	1887	2090	2688
## ENSG00000138347	269	338	461	50	57	86
## ENSG00000179774	1	1	0	1	0	0
## ENSG00000108187	71	83	111	50	67	62
## ENSG00000096746	1549	1773	2165	949	1228	1361
## ENSG00000204130	267	330	369	162	164	214
## ENSG00000138346	49	85	103	63	79	70
## ENSG00000122912	252	337	394	229	264	306
## ENSG00000138336	56	82	78	50	66	92
## ENSG00000060339	1350	1482	1789	1641	1825	2242
## ENSG00000165730	2	0	6	1	0	1
## ENSG00000107625	578	651	800	569	682	672
## ENSG00000165732	2553	3130	3941	2640	2883	3355
## ENSG00000198954	802	877	1167	810	898	1024
## ENSG00000122862	81	91	117	56	71	55
## ENSG00000122958	810	887	1169	1302	1437	1775
## ENSG00000156502	280	280	394	256	266	315
## ENSG00000156510	4	2	1	5	2	0
## ENSG00000156515	2652	2913	3941	2620	2845	3456
## ENSG00000075073	4	3	6	7	4	4
## ENSG00000099282	2	4	2	0	0	1

## ENSG00000122859	0	0	0	0	0	0
## ENSG00000171224	7	4	4	1	2	7
## ENSG00000197467	575	686	891	532	529	605
## ENSG00000099284	238	292	331	298	285	400
## ENSG00000042286	165	223	234	356	371	518
## ENSG00000156521	131	129	177	174	181	194
## ENSG00000079332	2598	2966	3735	2057	2565	2713
## ENSG00000180817	1082	1347	1635	705	862	911
## ENSG00000148734	0	0	0	0	0	0
## ENSG00000172731	109	120	138	52	76	75
## ENSG00000148730	2042	2460	2774	4087	4360	5232
## ENSG00000156574	0	1	0	1	0	0
## ENSG00000107719	7	4	7	12	15	18
## ENSG00000180644	0	0	0	0	0	0
## ENSG00000138316	28	20	30	35	36	37
## ENSG00000166220	0	0	0	0	0	0
## ENSG00000166224	520	668	777	702	782	925
## ENSG00000166228	159	222	233	186	170	189
## ENSG00000107731	308	330	398	1085	1189	1361
## ENSG00000198246	55	59	70	98	119	163
## ENSG00000107736	0	1	0	0	0	0
## ENSG00000214688	0	0	0	0	0	0
## ENSG00000107738	166	134	227	61	75	73
## ENSG00000197746	10521	11531	14789	19484	20643	25296
## ENSG00000122863	1203	1370	1650	724	760	903
## ENSG00000107742	0	1	1	4	1	1
## ENSG00000138303	207	251	279	181	232	250
## ENSG00000166295	370	390	555	519	597	637
## ENSG00000168209	250	80	123	132	110	134
## ENSG00000148719	568	707	921	766	788	979
## ENSG00000107745	828	962	1176	1350	1538	1892
## ENSG00000156026	482	551	701	564	659	745
## ENSG00000138315	0	0	0	0	0	2
## ENSG00000138308	0	1	0	0	0	0
## ENSG00000122884	2666	2907	3740	3737	4348	4574
## ENSG00000166321	12	28	22	20	20	15
## ENSG00000122882	419	477	703	569	613	736
## ENSG00000138286	301	340	427	216	225	246
## ENSG00000213551	198	266	330	171	179	186
## ENSG00000182180	618	748	977	851	957	1149
## ENSG00000156042	3	6	7	6	8	8
## ENSG00000138279	1197	1457	1648	1210	1408	1570
## ENSG00000166343	9	7	9	24	16	25
## ENSG00000107758	1096	1249	1642	1507	1659	1929
## ENSG00000166348	93	113	137	130	124	152
## ENSG00000177791	3	1	4	1	3	0
## ENSG00000166317	21	28	30	10	11	8
## ENSG00000172650	2	2	2	3	0	3
## ENSG00000176986	1199	1443	1923	1188	1294	1421
## ENSG00000196968	316	378	468	785	729	1002
## ENSG00000172586	219	249	325	296	252	345
## ENSG00000214655	670	770	931	1523	1680	2068
## ENSG00000272916	0	0	0	1	0	1
## ENSG00000166507	12	10	15	16	14	11

## ENSG00000148660	582	662	909	624	696	846
## ENSG00000122861	7506	8934	11316	44932	43648	61111
## ENSG00000222047	17	18	24	63	68	100
## ENSG00000035403	14231	16666	21647	8402	10721	11094
## ENSG00000185009	1015	1176	1455	1194	1372	1600
## ENSG00000156110	448	521	678	249	324	340
## ENSG00000156650	619	785	860	821	931	1133
## ENSG00000188716	0	0	0	0	0	0
## ENSG00000079393	0	0	0	0	2	0
## ENSG00000156671	775	883	1081	1709	1798	2250
## ENSG00000165637	1977	2369	2788	2363	2597	3080
## ENSG00000165644	45	51	50	58	58	68
## ENSG00000165655	344	400	468	851	926	1114
## ENSG00000148655	5	3	2	9	9	17
## ENSG00000281042	0	0	0	0	0	0
## ENSG00000156113	1832	2088	2675	2070	1996	2721
## ENSG00000151208	1455	1728	2169	2229	2323	2854
## ENSG00000148606	892	1030	1244	848	921	1029
## ENSG00000138326	5887	6674	8072	6487	6896	8102
## ENSG00000108175	2502	2893	3940	3238	3498	4167
## ENSG00000108179	1148	1265	1682	1422	1515	1785
## ENSG00000165424	1128	1294	1676	1215	1475	1582
## ENSG00000253626	39	37	48	20	30	29
## ENSG00000185303	0	1	0	0	0	0
## ENSG00000122852	0	0	0	0	0	0
## ENSG00000188199	3	0	4	3	1	1
## ENSG00000228570	0	0	0	0	0	0
## ENSG00000133661	0	1	0	0	0	0
## ENSG00000133678	66	83	115	86	107	124
## ENSG00000189129	88	84	99	131	131	162
## ENSG00000122359	2882	3238	4053	2906	3246	3679
## ENSG00000151224	0	0	0	0	0	0
## ENSG00000170788	0	0	0	0	0	0
## ENSG00000133665	0	0	0	0	0	0
## ENSG00000122378	37	52	75	215	230	325
## ENSG00000108219	918	1111	1390	1563	1605	2040
## ENSG00000178217	0	0	0	0	0	0
## ENSG00000185737	0	0	0	0	0	1
## ENSG00000165678	2019	2297	2920	2505	2801	3308
## ENSG00000188373	0	0	0	0	0	0
## ENSG00000148600	0	0	1	0	0	1
## ENSG00000204033	0	0	0	0	0	0
## ENSG00000148602	0	0	0	0	0	0
## ENSG00000148604	0	0	0	0	0	0
## ENSG00000107771	964	1224	1388	1540	1823	2226
## ENSG00000182771	1	0	0	2	1	2
## ENSG00000062650	970	1164	1420	1137	1269	1423
## ENSG00000122375	0	0	0	0	0	0
## ENSG00000122367	27	26	35	5	5	7
## ENSG00000107779	701	829	1010	641	772	834
## ENSG00000173269	5	6	13	2	5	2
## ENSG00000173267	39	33	55	19	27	39
## ENSG00000148671	0	0	0	0	0	0
## ENSG00000188100	0	0	0	0	0	0

## ENSG00000148672	1967	2158	2705	2094	2375	2662
## ENSG00000122376	447	527	609	403	461	496
## ENSG00000184923	3	4	4	2	4	6
## ENSG00000214562	5	9	7	4	4	10
## ENSG00000107789	570	584	742	1009	1015	1333
## ENSG00000198682	2800	3076	3860	1985	2380	2404
## ENSG00000138138	579	717	905	1284	1460	1751
## ENSG00000227268	10	10	14	15	23	23
## ENSG00000171862	1483	1689	2060	2412	2808	3168
## ENSG00000184719	25	32	27	19	21	29
## ENSG00000204022	1	0	0	0	0	0
## ENSG00000182333	0	0	0	0	0	0
## ENSG00000204021	0	0	0	0	0	0
## ENSG00000204020	0	0	0	0	0	0
## ENSG00000173239	0	0	0	0	0	0
## ENSG00000152766	0	1	1	0	0	1
## ENSG00000138134	414	471	522	877	960	1192
## ENSG00000107796	4172	4762	6142	1846	2479	2418
## ENSG00000026103	611	679	841	983	1173	1307
## ENSG00000138135	1	0	2	2	1	2
## ENSG00000107798	616	728	942	785	861	1012
## ENSG00000119922	58	41	74	28	38	37
## ENSG00000119917	97	101	144	135	149	165
## ENSG00000204010	0	0	0	1	0	1
## ENSG00000185745	41	50	63	20	16	25
## ENSG00000152778	301	287	407	205	257	307
## ENSG00000152779	35	34	41	2	1	4
## ENSG00000152782	49	58	87	104	100	133
## ENSG00000138182	395	515	652	88	113	111
## ENSG00000148680	48	49	60	191	158	273
## ENSG00000148688	226	263	345	292	337	336
## ENSG00000148677	176	233	283	71	106	79
## ENSG00000180628	519	570	736	291	353	395
## ENSG00000165338	215	237	280	266	385	394
## ENSG00000119938	782	798	1033	319	449	314
## ENSG00000107854	1446	1783	2201	3108	3471	4306
## ENSG00000174721	8	7	21	14	16	12
## ENSG00000095564	674	716	986	1134	1277	1443
## ENSG00000107864	21	18	16	12	14	22
## ENSG00000198060	656	754	921	960	1082	1291
## ENSG00000119912	683	787	1006	884	1162	1257
## ENSG00000138160	579	733	908	111	138	170
## ENSG00000152804	166	191	215	88	96	90
## ENSG00000138190	312	339	433	199	291	276
## ENSG00000187553	1	0	0	1	0	4
## ENSG00000095596	0	0	0	1	1	2
## ENSG00000138119	12709	14631	18087	9007	11108	10847
## ENSG00000138180	466	626	776	65	92	72
## ENSG00000186188	0	0	0	0	0	0
## ENSG00000138207	2	2	1	1	2	3
## ENSG00000095464	2	3	1	2	1	2
## ENSG00000148690	263	290	334	201	275	296
## ENSG00000108231	0	0	0	0	0	0
## ENSG00000176273	70	90	95	89	114	100

## ENSG00000138193	98	144	139	49	63	67
## ENSG00000173145	361	488	551	242	267	286
## ENSG00000108239	133	165	216	170	240	277
## ENSG00000119969	149	183	231	63	99	87
## ENSG00000108242	0	0	0	0	0	0
## ENSG00000276490	0	0	0	0	0	0
## ENSG00000165841	0	0	0	0	0	0
## ENSG00000138109	0	0	0	0	0	0
## ENSG00000138115	0	0	0	0	0	0
## ENSG00000173124	0	0	0	0	0	0
## ENSG00000107438	2587	3053	3897	2210	2684	2843
## ENSG00000095637	5	9	9	10	14	7
## ENSG00000059573	2240	2492	3217	1099	1365	1389
## ENSG00000119977	743	838	1093	664	774	940
## ENSG00000138185	85	109	159	225	259	275
## ENSG00000270099	0	0	0	0	0	0
## ENSG00000173088	1	2	1	3	2	2
## ENSG00000188649	0	0	0	0	0	0
## ENSG00000107443	164	158	212	162	174	177
## ENSG00000177853	123	150	181	188	233	263
## ENSG00000095585	0	0	0	0	0	0
## ENSG00000107447	0	0	0	0	0	0
## ENSG00000197430	0	0	0	0	0	0
## ENSG00000095587	2	4	7	10	2	9
## ENSG00000077147	3588	4259	5153	5695	6478	7335
## ENSG00000155629	4	5	5	13	10	8
## ENSG00000196233	325	401	506	497	571	633
## ENSG00000155640	134	169	178	118	107	136
## ENSG00000187122	0	1	2	0	1	0
## ENSG00000269891	0	0	0	0	0	0
## ENSG00000213390	205	207	289	106	91	131
## ENSG00000165879	20	16	34	53	64	79
## ENSG00000181274	45	58	65	151	162	212
## ENSG00000052749	781	884	1140	596	638	828
## ENSG00000171314	2186	2626	3171	2375	2655	3281
## ENSG00000171311	252	299	364	293	315	373
## ENSG00000171307	669	777	1012	456	524	572
## ENSG00000155229	1059	1179	1559	934	1071	1233
## ENSG00000165886	662	797	947	1158	1271	1550
## ENSG00000165887	0	1	3	1	2	3
## ENSG00000241935	1	1	1	0	0	0
## ENSG00000249967	0	0	0	0	0	0
## ENSG00000203942	0	0	0	0	0	0
## ENSG00000171160	94	112	131	152	177	216
## ENSG00000155252	644	750	942	1018	1039	1289
## ENSG00000119986	220	242	327	344	378	475
## ENSG00000155254	1846	2261	2849	2609	2744	3244
## ENSG00000155256	340	387	441	514	578	679
## ENSG00000120057	0	0	0	0	0	0
## ENSG00000155265	0	1	0	0	1	0
## ENSG00000095713	0	0	0	0	0	0
## ENSG00000166024	185	212	281	265	323	395
## ENSG00000138131	516	446	667	143	147	159
## ENSG00000119943	73	96	114	35	26	37



## ENSG00000107521	689	852	985	763	792	978
## ENSG00000172987	0	0	0	3	0	0
## ENSG00000119946	16	16	21	34	33	50
## ENSG00000120053	666	654	940	371	452	454
## ENSG00000119919	0	0	0	0	0	0
## ENSG00000155287	152	192	225	116	152	168
## ENSG00000198018	413	459	553	727	743	912
## ENSG00000119929	88	93	129	99	117	133
## ENSG00000014919	414	468	609	307	333	354
## ENSG00000023839	8	7	11	9	7	8
## ENSG00000107554	744	751	1086	667	770	840
## ENSG00000120054	0	0	0	0	0	0
## ENSG00000107566	660	773	1014	318	340	409
## ENSG00000213341	466	552	700	672	780	876
## ENSG00000095485	171	209	245	173	206	214
## ENSG00000196072	651	782	839	442	525	641
## ENSG00000107593	0	0	0	0	0	0
## ENSG00000099194	3779	4222	5258	3860	3806	4880
## ENSG00000075290	0	0	0	0	0	0
## ENSG00000075826	20	13	23	26	40	39
## ENSG00000255339	0	0	0	0	0	0
## ENSG00000166136	96	146	149	138	143	178
## ENSG00000166135	1218	1419	1679	649	703	755
## ENSG00000075891	0	0	0	0	0	0
## ENSG00000119906	568	592	766	744	775	948
## ENSG00000055950	533	592	725	516	573	653
## ENSG00000095539	57	53	73	44	62	69
## ENSG00000107815	175	166	242	173	185	211
## ENSG00000107816	1198	1386	1598	1244	1270	1580
## ENSG00000186862	6	11	10	2	4	7
## ENSG00000107819	1071	1308	1495	721	822	983
## ENSG00000107821	167	196	219	134	162	191
## ENSG00000107807	0	0	0	0	0	0
## ENSG00000138136	0	0	0	1	0	0
## ENSG00000166167	584	586	800	1064	1203	1529
## ENSG00000166171	180	202	196	260	234	275
## ENSG00000166169	188	232	274	188	216	259
## ENSG00000107829	189	211	240	182	156	229
## ENSG00000107831	0	0	0	0	0	1
## ENSG00000107833	301	317	447	198	206	235
## ENSG00000198408	1639	1870	2360	2616	2909	3371
## ENSG00000120049	2	3	0	4	2	4
## ENSG00000120029	394	479	582	568	650	814
## ENSG00000166189	381	423	533	346	362	409
## ENSG00000198728	853	942	1251	1539	1738	2013
## ENSG00000148840	983	1061	1432	842	983	1126
## ENSG00000166197	1168	1238	1655	811	806	1000
## ENSG00000119915	0	0	0	4	5	5
## ENSG00000107859	0	2	1	1	0	2
## ENSG00000107862	2858	3206	4087	2716	2987	3353
## ENSG00000077150	644	705	961	634	671	864
## ENSG00000059915	60	63	101	101	111	114
## ENSG00000107872	78	86	98	107	121	152
## ENSG00000107874	533	589	685	724	811	939

## ENSG00000138111	19	24	28	16	24	24
## ENSG00000138107	2830	3413	4260	3245	3675	4307
## ENSG00000107882	460	566	748	544	623	752
## ENSG00000171206	1532	1715	2324	1200	1404	1653
## ENSG00000138175	440	481	559	506	669	744
## ENSG00000156398	52	46	54	7	2	6
## ENSG00000166272	710	752	1019	894	902	1153
## ENSG00000148795	0	0	0	0	0	1
## ENSG00000166275	123	168	216	194	255	267
## ENSG00000270316	0	0	0	0	0	0
## ENSG00000214435	1	0	1	0	0	0
## ENSG00000148842	299	435	502	979	1158	1201
## ENSG00000076685	615	736	907	485	528	625
## ENSG00000235376	2	2	3	1	0	0
## ENSG00000148798	226	241	316	205	250	276
## ENSG00000156374	122	146	181	112	133	129
## ENSG00000148835	80	109	126	122	149	148
## ENSG00000173915	607	745	881	673	808	878
## ENSG00000148843	1292	1457	1834	1252	1434	1677
## ENSG00000138172	59	77	110	77	87	141
## ENSG00000185933	0	0	1	0	0	0
## ENSG00000183128	0	0	0	0	0	0
## ENSG00000107954	8	6	23	10	12	9
## ENSG00000107957	3194	3979	4358	6175	6754	7694
## ENSG00000107960	166	200	266	171	187	212
## ENSG00000065613	1126	1359	1663	1409	1628	1882
## ENSG00000065618	8	7	9	2	1	0
## ENSG00000156384	26	46	42	26	34	41
## ENSG00000197748	0	2	0	0	1	1
## ENSG00000148834	1731	2146	2496	2608	2960	3335
## ENSG00000065621	45	53	69	123	132	215
## ENSG00000148841	807	1087	1343	1724	1760	2238
## ENSG00000120051	6	13	14	14	25	16
## ENSG00000156395	0	0	0	0	0	0
## ENSG00000108018	1	1	0	1	0	0
## ENSG00000108039	1083	1278	1525	1310	1431	1727
## ENSG00000148700	2249	2676	3317	5375	5975	6999
## ENSG00000119950	126	142	151	186	211	216
## ENSG00000119953	422	482	620	544	591	698
## ENSG00000138166	655	655	985	379	432	435
## ENSG00000108055	879	980	1191	500	595	744
## ENSG00000203867	19	20	21	22	10	24
## ENSG00000150593	755	817	975	742	965	894
## ENSG00000214413	89	136	173	151	145	196
## ENSG00000108061	928	1062	1391	864	1136	1210
## ENSG00000150594	1	0	0	0	0	1
## ENSG00000119927	260	250	323	117	130	161
## ENSG00000119913	0	0	0	0	0	0
## ENSG00000197142	22	23	34	14	11	18
## ENSG00000023041	275	342	417	359	359	454
## ENSG00000151532	373	458	524	433	496	567
## ENSG00000148737	236	261	337	244	302	333
## ENSG00000148702	0	0	0	0	0	0
## ENSG00000197893	0	0	0	0	0	0

## ENSG00000165806	318	390	464	221	262	275
## ENSG00000148735	0	0	0	0	0	0
## ENSG00000198924	100	97	144	58	70	72
## ENSG00000196865	334	365	453	356	423	507
## ENSG00000043591	0	0	0	0	0	0
## ENSG00000165813	336	429	480	410	461	487
## ENSG00000095627	0	0	0	0	0	0
## ENSG00000165816	0	0	0	0	0	0
## ENSG00000169129	1	7	5	20	12	21
## ENSG00000099204	405	442	608	126	184	134
## ENSG00000151553	712	788	1042	711	774	891
## ENSG00000165832	348	376	504	445	528	570
## ENSG00000107518	4	6	6	72	90	116
## ENSG00000151892	383	412	465	101	116	120
## ENSG00000182645	0	0	0	0	0	0
## ENSG00000203837	0	0	0	0	0	0
## ENSG00000175535	0	0	0	0	0	0
## ENSG00000187021	0	0	0	0	0	0
## ENSG00000165863	3	1	3	1	2	0
## ENSG00000165868	437	502	721	256	280	320
## ENSG00000188316	0	0	3	2	1	1
## ENSG00000187164	125	141	159	74	118	115
## ENSG00000148704	0	0	0	0	0	0
## ENSG00000186795	0	0	0	0	0	0
## ENSG00000165646	2	5	4	3	0	4
## ENSG00000165650	719	942	1121	592	783	894
## ENSG00000170370	0	0	0	0	0	0
## ENSG00000107560	271	284	329	255	316	366
## ENSG00000165669	324	382	523	422	470	584
## ENSG00000119973	0	0	0	0	0	0
## ENSG00000151893	872	936	1155	304	384	360
## ENSG00000188613	6	2	6	3	3	9
## ENSG00000107581	6375	6916	8845	9487	10665	12153
## ENSG00000119979	464	488	615	690	830	1003
## ENSG00000183605	123	130	154	65	91	117
## ENSG00000165672	1997	2306	2921	1939	2392	2686
## ENSG00000198873	555	637	734	1404	1527	1880
## ENSG00000148908	561	677	863	856	984	1054
## ENSG00000151923	961	1101	1413	1030	1259	1391
## ENSG00000151929	1656	1823	2444	1708	1938	2111
## ENSG00000198825	655	701	924	764	810	941
## ENSG00000197771	638	747	1004	629	720	875
## ENSG00000107651	1326	1507	1926	1539	1757	1986
## ENSG00000203805	6	14	16	27	20	20
## ENSG00000120008	756	926	1089	1019	1243	1357
## ENSG00000066468	0	0	0	0	0	0
## ENSG00000107669	358	390	545	421	552	593
## ENSG00000107672	109	152	211	119	120	176
## ENSG00000138162	294	388	469	696	749	929
## ENSG00000138152	0	1	0	0	1	1
## ENSG00000107679	339	352	475	211	278	237
## ENSG00000254636	0	0	0	0	0	0
## ENSG00000166033	1384	1465	1936	3302	3327	4318
## ENSG00000187908	0	0	0	0	0	0

## ENSG00000183559	0	0	0	0	0	0
## ENSG00000138161	6	3	5	2	4	5
## ENSG00000213185	5	1	7	3	4	6
## ENSG00000203795	0	0	0	0	0	0
## ENSG00000119965	194	228	261	193	259	297
## ENSG00000179988	31	46	39	30	34	46
## ENSG00000095574	178	177	242	192	179	237
## ENSG00000196177	219	249	362	229	288	273
## ENSG00000188620	0	0	0	0	0	0
## ENSG00000188816	0	0	0	0	0	0
## ENSG00000154473	1398	1750	2291	1364	1534	1837
## ENSG00000154478	0	0	0	0	0	0
## ENSG00000121898	0	2	2	0	2	1
## ENSG00000182022	3	2	5	5	8	8
## ENSG00000065154	1498	1764	2244	1656	2026	2030
## ENSG00000229544	0	0	0	0	0	0
## ENSG00000107902	34	40	42	39	43	58
## ENSG00000258539	0	1	0	1	1	2
## ENSG00000189319	150	190	212	228	278	349
## ENSG00000203791	91	97	131	80	107	94
## ENSG00000165660	322	364	490	272	315	355
## ENSG00000019995	324	396	474	458	551	675
## ENSG00000175029	818	912	1194	766	871	963
## ENSG00000175018	0	0	0	0	0	0
## ENSG00000107938	217	250	338	219	275	267
## ENSG00000154485	0	1	1	1	0	1
## ENSG00000188690	680	797	950	694	755	944
## ENSG00000107949	610	797	927	443	521	651
## ENSG00000089876	304	365	517	742	767	1019
## ENSG00000203780	9	16	22	63	66	81
## ENSG00000148848	600	655	763	831	842	1040
## ENSG00000154493	1	0	2	0	0	0
## ENSG00000150760	1539	1747	2073	2077	2249	2679
## ENSG00000188916	4	15	13	19	17	34
## ENSG00000214285	0	0	0	0	0	0
## ENSG00000186766	0	0	0	0	0	0
## ENSG00000180745	0	0	0	0	0	0
## ENSG00000132334	19	29	25	212	207	328
## ENSG00000148773	2509	3251	3755	337	432	393
## ENSG00000170430	147	183	207	173	230	245
## ENSG00000108001	26	24	27	24	46	40
## ENSG00000108010	992	1145	1473	1172	1258	1496
## ENSG00000176769	0	0	1	0	0	1
## ENSG00000175470	361	383	507	431	488	541
## ENSG00000176171	1090	1229	1532	1189	1321	1577
## ENSG00000188385	6	3	6	4	7	5
## ENSG00000151640	417	443	528	1271	1341	1651
## ENSG00000165752	96	120	165	170	154	211
## ENSG00000148814	70	75	83	114	140	133
## ENSG00000171813	109	124	182	157	148	210
## ENSG00000068383	510	622	746	590	730	837
## ENSG00000148826	1	0	0	1	1	1
## ENSG00000171811	9	12	14	16	21	32
## ENSG00000197177	0	0	0	0	0	0

## ENSG00000171798	43	59	91	57	46	61
## ENSG00000171794	0	0	0	0	0	0
## ENSG00000151650	0	0	0	1	3	2
## ENSG00000151651	8	3	9	10	15	19
## ENSG00000130640	1325	1548	2022	1262	1373	1670
## ENSG00000198546	63	71	98	77	80	92
## ENSG00000165828	0	0	2	2	1	1
## ENSG00000130643	3	4	5	5	9	10
## ENSG00000148803	72	100	127	107	105	107
## ENSG00000127884	1334	1505	2009	1597	1606	1986
## ENSG00000148832	33	48	59	54	60	91
## ENSG00000254536	0	0	0	1	0	0
## ENSG00000148824	35	42	64	36	53	58
## ENSG00000203772	129	121	157	75	84	91
## ENSG00000130649	0	6	13	9	17	18
## ENSG00000171772	0	1	0	0	0	1
## ENSG00000225899	0	0	0	0	0	0
## ENSG00000120645	4	3	3	17	9	15
## ENSG00000111181	0	1	0	2	3	7
## ENSG00000010379	0	0	1	1	2	1
## ENSG00000073614	1019	1111	1384	983	1100	1222
## ENSG00000120647	68	96	139	147	144	199
## ENSG00000139044	0	0	1	4	0	7
## ENSG00000171840	0	0	0	0	0	0
## ENSG00000060237	2647	3228	3393	1442	1537	1702
## ENSG00000002016	68	78	79	59	57	71
## ENSG00000082805	1494	1737	2146	1518	1656	2044
## ENSG00000111186	1669	2040	2580	1056	1218	1372
## ENSG00000171823	95	109	138	163	148	221
## ENSG00000006831	876	1050	1270	1525	1704	2149
## ENSG00000151062	2	1	2	11	9	8
## ENSG00000166159	0	0	0	0	0	0
## ENSG00000151065	184	230	276	230	237	276
## ENSG00000151067	156	195	237	238	280	316
## ENSG00000004478	1162	1273	1510	900	960	1141
## ENSG00000111203	157	182	237	124	128	174
## ENSG00000053702	18	14	27	16	9	16
## ENSG00000111206	668	771	1078	102	126	117
## ENSG00000171792	246	297	354	210	213	262
## ENSG00000078246	663	660	856	607	679	743
## ENSG00000197905	148	204	289	28	32	37
## ENSG00000011105	782	943	1215	1562	1735	2058
## ENSG00000111218	0	0	0	0	0	0
## ENSG00000130038	3	4	6	1	1	0
## ENSG00000111224	116	113	131	164	195	213
## ENSG00000118971	575	696	747	730	846	800
## ENSG00000078237	461	563	650	719	787	955
## ENSG00000118972	0	0	0	0	0	0
## ENSG00000111241	0	0	0	0	0	0
## ENSG00000047621	317	405	483	171	195	223
## ENSG00000111247	98	135	162	27	30	26
## ENSG00000010219	139	160	194	168	214	235
## ENSG00000272921	0	0	0	0	0	0
## ENSG00000111254	6	5	6	3	7	7

## ENSG00000139180	122	154	196	149	201	224
## ENSG00000255639	0	0	0	0	0	0
## ENSG00000130035	0	0	0	0	0	0
## ENSG00000151079	0	0	0	0	0	0
## ENSG00000111262	0	0	0	0	0	0
## ENSG00000130037	0	0	0	0	0	0
## ENSG00000185652	164	206	228	64	101	87
## ENSG00000047617	0	3	2	1	0	2
## ENSG00000110799	14	16	31	24	32	31
## ENSG00000010278	1181	1314	1717	1303	1291	1527
## ENSG00000008323	6	10	9	12	8	6
## ENSG00000067182	1962	2172	2890	1426	1656	1833
## ENSG00000111319	1	2	2	1	0	1
## ENSG00000111321	1308	1430	1975	1121	1163	1435
## ENSG00000139193	2	0	0	1	0	2
## ENSG00000139192	52	53	68	78	86	77
## ENSG00000139190	66	68	102	57	67	100
## ENSG00000111639	813	933	1149	847	920	1129
## ENSG00000010292	1441	1593	2250	683	792	902
## ENSG00000111640	34708	39354	49806	29984	34015	39112
## ENSG00000010295	386	397	494	570	540	736
## ENSG00000111641	628	651	862	505	576	697
## ENSG00000111642	4070	4682	5639	5646	6291	7233
## ENSG00000184574	0	0	0	0	0	0
## ENSG00000111644	2	2	0	2	1	1
## ENSG00000111653	164	167	212	329	392	381
## ENSG00000126746	300	330	418	390	399	472
## ENSG00000139200	179	189	269	204	245	277
## ENSG00000111652	930	1050	1357	1211	1249	1499
## ENSG00000089693	3200	3808	4766	4107	4609	5524
## ENSG00000159335	4109	4619	5841	4340	4492	5346
## ENSG00000089692	4	4	6	1	0	1
## ENSG00000010610	447	522	666	589	640	733
## ENSG00000250510	54	51	76	97	119	120
## ENSG00000110811	1855	1989	2623	2132	2324	2759
## ENSG00000111664	25	31	37	25	24	26
## ENSG00000111665	233	246	372	35	57	52
## ENSG00000111667	1789	1964	2680	1768	1919	2203
## ENSG00000111669	7123	7983	10131	7061	7523	8873
## ENSG00000111671	51	50	60	38	68	60
## ENSG00000010626	68	53	57	59	53	78
## ENSG00000111674	480	517	653	409	449	572
## ENSG00000111676	3152	3584	4704	3966	4189	5186
## ENSG00000111678	176	229	258	317	338	422
## ENSG00000111679	1	1	0	1	2	1
## ENSG00000215021	1483	1812	2308	1683	2011	2409
## ENSG00000126749	78	76	118	48	83	63
## ENSG00000268439	2	4	2	4	1	0
## ENSG00000111684	99	107	145	232	233	324
## ENSG00000182326	1828	1955	2461	2978	3450	4158
## ENSG00000159403	994	1035	1411	1193	1395	1622
## ENSG00000139178	159	183	219	185	218	246
## ENSG00000139194	9	19	13	14	21	23
## ENSG00000139182	410	409	527	566	547	682

## ENSG00000139197	291	359	442	421	451	575
## ENSG00000215009	1	0	0	0	0	1
## ENSG00000177675	7	21	29	35	30	49
## ENSG00000177575	0	0	0	0	0	0
## ENSG00000111701	0	0	0	0	0	0
## ENSG00000184344	0	0	0	0	0	0
## ENSG00000187569	0	0	0	0	0	0
## ENSG00000198178	0	0	0	0	0	0
## ENSG00000205857	0	0	0	0	0	0
## ENSG00000111704	0	1	0	0	0	0
## ENSG00000173262	16	13	28	59	69	71
## ENSG00000059804	1046	1189	1547	5253	5505	7230
## ENSG00000065970	481	555	702	450	533	630
## ENSG00000171860	4	5	2	1	1	2
## ENSG00000089818	486	560	728	611	680	745
## ENSG00000111729	2	4	3	4	1	1
## ENSG00000196946	0	0	0	0	0	0
## ENSG00000171847	2	1	3	0	3	1
## ENSG00000205846	0	0	0	0	0	0
## ENSG00000166527	0	0	0	0	0	0
## ENSG00000166523	0	0	0	0	0	0
## ENSG00000111732	0	0	0	0	0	0
## ENSG00000197614	5	9	6	6	11	4
## ENSG00000166532	139	174	195	91	114	130
## ENSG00000166535	0	1	0	1	0	1
## ENSG00000111752	159	189	246	242	262	317
## ENSG00000003056	994	1160	1413	1606	1616	2056
## ENSG00000139187	5	5	8	4	3	7
## ENSG00000175899	165	195	212	350	391	463
## ENSG00000126838	0	0	0	0	0	0
## ENSG00000111796	0	0	0	0	0	0
## ENSG00000069493	14	8	23	36	40	62
## ENSG00000184293	0	0	0	0	0	0
## ENSG00000110848	1	1	0	24	23	45
## ENSG00000150045	1	0	0	0	0	0
## ENSG00000110852	17	15	18	31	37	54
## ENSG00000256797	0	0	0	0	0	0
## ENSG00000188393	0	0	0	0	0	0
## ENSG00000172322	0	0	0	0	0	0
## ENSG00000165682	0	0	0	0	0	0
## ENSG00000256660	0	0	1	0	1	0
## ENSG00000197992	0	0	0	0	0	0
## ENSG00000150048	1	1	1	1	0	2
## ENSG00000172243	0	0	0	0	0	0
## ENSG00000173391	199	265	312	69	96	78
## ENSG00000165685	41	50	57	43	64	66
## ENSG00000139112	1376	1553	1867	3323	3824	4553
## ENSG00000134539	1	1	1	1	1	3
## ENSG00000255819	0	0	0	0	0	0
## ENSG00000213809	0	0	0	0	1	0
## ENSG00000183542	0	0	0	0	0	0
## ENSG00000255641	0	0	0	0	0	0
## ENSG00000205810	0	0	0	0	0	0
## ENSG00000205809	0	0	0	0	0	0

## ENSG00000134545	0	0	0	0	0	0
## ENSG00000180574	11	10	21	6	11	19
## ENSG00000111196	166	218	260	153	159	171
## ENSG00000060140	10	21	22	3	3	5
## ENSG00000060138	2005	2312	2960	1288	1530	1683
## ENSG00000121377	0	0	0	0	0	0
## ENSG00000121314	0	0	0	0	0	0
## ENSG00000121381	0	0	0	0	0	0
## ENSG00000231887	2	2	6	3	5	0
## ENSG00000121318	1	0	1	1	1	2
## ENSG00000275778	0	0	0	0	0	0
## ENSG00000111215	3	2	2	3	7	4
## ENSG00000212128	0	0	0	0	0	1
## ENSG00000134551	1	1	0	0	1	0
## ENSG00000212127	15	17	18	18	16	12
## ENSG00000212126	0	1	0	0	2	1
## ENSG00000255837	3	0	3	3	4	3
## ENSG00000212124	2	3	2	5	9	1
## ENSG00000256436	0	2	4	1	1	3
## ENSG00000226761	0	0	0	0	0	0
## ENSG00000256188	0	0	0	0	1	0
## ENSG00000255374	1	0	0	1	0	0
## ENSG00000256537	423	449	543	513	586	680
## ENSG00000186136	0	0	0	0	0	0
## ENSG00000197870	0	0	1	0	1	0
## ENSG00000230657	0	0	0	0	0	0
## ENSG00000251655	0	0	0	0	0	0
## ENSG00000121335	0	0	0	0	0	1
## ENSG00000139083	303	343	395	448	491	572
## ENSG00000121380	1	1	4	1	0	3
## ENSG00000070018	1064	1050	1324	1656	1728	1884
## ENSG00000111261	63	91	126	115	133	126
## ENSG00000165714	101	114	111	108	115	132
## ENSG00000111266	201	234	260	119	141	173
## ENSG00000111269	623	726	842	801	956	1056
## ENSG00000183150	2	0	0	0	0	0
## ENSG00000111276	328	368	428	432	509	576
## ENSG00000178878	72	113	92	39	77	68
## ENSG00000213782	11	17	19	18	25	34
## ENSG00000013588	921	897	1173	489	596	569
## ENSG00000111291	1	0	1	1	1	1
## ENSG00000013583	489	577	690	464	484	519
## ENSG00000084444	165	169	232	202	207	273
## ENSG00000111305	21	19	28	9	7	12
## ENSG00000134531	2475	3099	4045	3185	3666	4412
## ENSG00000273079	0	0	1	0	0	0
## ENSG00000171681	743	753	979	917	1004	1114
## ENSG00000121316	0	3	2	5	0	1
## ENSG00000070019	0	0	0	0	0	0
## ENSG00000197837	5	8	9	10	8	11
## ENSG00000246705	191	242	281	193	233	238
## ENSG00000084463	929	1025	1425	1026	1195	1364
## ENSG00000182993	8	12	16	14	14	20
## ENSG00000179256	0	2	1	2	1	0



## ENSG00000111339	1	1	0	0	0	0
## ENSG00000111341	30	36	41	30	31	43
## ENSG00000139055	0	1	1	0	0	1
## ENSG00000111348	57	79	98	27	25	27
## ENSG00000139053	0	0	0	0	0	0
## ENSG00000134533	0	0	0	4	0	2
## ENSG00000151490	0	0	1	0	0	0
## ENSG00000151491	971	1121	1439	1498	1613	1810
## ENSG00000023734	2788	3169	3918	2279	2846	3033
## ENSG00000023697	297	379	444	244	336	348
## ENSG00000188991	0	0	0	0	0	0
## ENSG00000008394	1836	2142	2580	3051	3298	4281
## ENSG00000048540	6	3	4	2	6	5
## ENSG00000111404	0	1	0	0	0	0
## ENSG00000139144	0	0	0	0	0	0
## ENSG00000139151	0	0	0	0	0	0
## ENSG00000177938	0	0	0	0	0	0
## ENSG00000052126	259	255	305	583	645	809
## ENSG00000139154	378	473	610	511	633	734
## ENSG00000172572	8	7	5	39	48	64
## ENSG00000139155	0	0	0	0	0	0
## ENSG00000111700	0	0	0	0	0	0
## ENSG00000257046	0	0	0	0	0	0
## ENSG00000205754	0	0	0	0	0	0
## ENSG00000257062	0	0	0	0	0	0
## ENSG00000134538	0	0	0	0	0	0
## ENSG00000084453	0	0	0	0	0	0
## ENSG00000121351	0	0	0	0	0	0
## ENSG00000121350	129	157	216	166	218	224
## ENSG00000004700	799	887	1092	803	992	1095
## ENSG00000111711	1432	1515	1896	2403	2763	3136
## ENSG00000134548	4	3	3	3	4	5
## ENSG00000111713	1	0	0	1	0	1
## ENSG00000111716	4896	5595	6784	4719	5286	6253
## ENSG00000121361	75	72	110	16	12	15
## ENSG00000069431	119	151	150	28	42	35
## ENSG00000111726	430	497	584	307	402	446
## ENSG00000111728	2	2	3	14	14	8
## ENSG00000111731	278	303	400	236	341	303
## ENSG00000139163	534	609	807	554	623	769
## ENSG00000134532	95	109	114	186	192	243
## ENSG00000060982	7005	8082	10119	3337	4595	4173
## ENSG00000118308	0	1	0	1	0	0
## ENSG00000118307	0	1	0	2	1	0
## ENSG00000205707	135	144	153	134	170	178
## ENSG00000133703	588	694	902	802	945	1056
## ENSG00000152936	13	13	18	1	0	3
## ENSG00000123094	770	922	1103	1581	1819	2357
## ENSG00000123095	58	69	78	62	90	97
## ENSG00000123096	94	112	111	66	82	83
## ENSG00000123104	222	270	255	236	219	249
## ENSG00000064102	304	389	467	289	343	380
## ENSG00000111790	386	441	549	487	534	631
## ENSG00000064115	678	852	938	1042	1149	1139

## ENSG00000152944	324	371	418	283	286	315
## ENSG00000214700	0	0	0	1	3	0
## ENSG00000211455	233	259	289	621	590	830
## ENSG00000029153	876	1117	1368	376	438	572
## ENSG00000165935	0	0	1	0	1	1
## ENSG00000110841	1154	1409	1681	2160	2369	2770
## ENSG00000174236	8	3	3	7	5	2
## ENSG00000061794	621	779	871	597	659	691
## ENSG00000205693	0	1	0	0	1	1
## ENSG00000087448	525	565	709	445	541	593
## ENSG00000087494	29	36	35	144	162	167
## ENSG00000123106	196	232	261	308	364	453
## ENSG00000064763	53	63	112	53	106	83
## ENSG00000087502	668	768	963	870	1018	1146
## ENSG00000187950	3	1	6	11	11	17
## ENSG00000133687	2679	3004	3634	4639	4935	5622
## ENSG00000133704	925	1106	1387	1076	1254	1392
## ENSG00000110888	331	297	440	197	247	290
## ENSG00000110900	22	16	29	166	158	180
## ENSG00000013573	91	122	162	31	29	39
## ENSG00000177359	0	0	0	0	1	0
## ENSG00000139146	272	313	399	372	438	558
## ENSG00000170456	214	213	300	191	224	215
## ENSG00000139160	12	23	42	18	29	30
## ENSG00000151743	24	26	30	70	72	83
## ENSG00000188375	5	10	9	11	15	11
## ENSG00000174718	183	195	212	448	472	604
## ENSG00000151746	426	495	650	559	635	801
## ENSG00000139132	152	184	194	414	476	565
## ENSG00000087470	1096	1294	1621	1414	1572	1860
## ENSG00000139131	226	278	354	298	336	386
## ENSG00000057294	8	13	18	3	4	0
## ENSG00000110975	0	0	0	0	0	0
## ENSG00000139133	33	37	44	45	42	53
## ENSG00000175548	61	94	108	138	155	204
## ENSG00000139117	0	0	1	0	1	0
## ENSG00000139116	18	14	17	5	13	12
## ENSG00000173208	1	0	0	0	1	1
## ENSG00000180116	0	0	0	0	0	0
## ENSG00000151229	250	239	336	945	911	1282
## ENSG00000188906	29	28	33	25	25	49
## ENSG00000018236	8	9	17	2	3	1
## ENSG00000165966	0	0	0	0	0	0
## ENSG00000151233	616	761	940	1070	1314	1371
## ENSG00000015153	173	210	209	111	157	176
## ENSG00000134283	565	670	838	699	758	841
## ENSG00000139168	447	497	597	503	586	721
## ENSG00000139174	275	334	402	67	131	95
## ENSG00000173157	0	2	2	0	1	0
## ENSG00000129317	514	650	742	269	354	361
## ENSG00000198001	292	356	397	234	269	328
## ENSG00000151239	1874	2289	2843	1592	1936	2226
## ENSG00000139173	180	191	266	42	60	51
## ENSG00000184613	0	0	2	1	2	5

## ENSG00000185610	0	0	1	0	0	0
## ENSG00000177119	1916	2158	2593	2646	3181	3615
## ENSG00000189079	343	338	396	451	467	585
## ENSG00000139218	1443	1627	1983	1745	2126	2267
## ENSG00000111371	3323	3859	4564	4142	4733	5345
## ENSG00000134294	15002	16905	21306	22570	26219	31016
## ENSG00000139209	109	126	152	145	158	175
## ENSG00000139211	550	657	836	851	1166	1094
## ENSG00000179715	25	23	34	26	29	34
## ENSG00000005175	419	486	615	521	601	728
## ENSG00000111405	3	1	1	0	1	3
## ENSG00000079337	56	60	69	17	28	41
## ENSG00000211584	131	151	207	103	105	138
## ENSG00000061273	1290	1496	1953	1750	2070	2445
## ENSG00000111424	328	328	470	151	200	193
## ENSG00000134291	339	367	521	184	221	260
## ENSG00000139219	0	0	1	5	3	2
## ENSG00000079387	279	304	381	165	145	175
## ENSG00000152556	933	1006	1296	1184	1286	1555
## ENSG00000177981	348	359	466	292	321	356
## ENSG00000177875	9	20	20	29	19	30
## ENSG00000172640	0	0	0	0	0	0
## ENSG00000187166	0	0	0	0	0	0
## ENSG00000167528	72	95	113	124	145	167
## ENSG00000139223	0	1	0	0	0	0
## ENSG00000177627	1	0	1	1	0	0
## ENSG00000197376	0	1	0	0	0	0
## ENSG00000167531	0	0	0	0	0	0
## ENSG00000139620	249	284	358	356	373	492
## ENSG00000129315	637	661	824	1172	1210	1561
## ENSG00000174233	902	1041	1278	1526	1863	2053
## ENSG00000167535	524	601	770	955	1076	1248
## ENSG00000174243	1365	1423	1922	1296	1396	1669
## ENSG00000172602	2	0	2	1	1	0
## ENSG00000272822	0	0	2	0	2	1
## ENSG00000139537	24	15	23	29	43	33
## ENSG00000134285	244	302	389	303	307	306
## ENSG00000255863	0	0	0	0	0	0
## ENSG00000134287	2250	2604	3122	2449	2778	3184
## ENSG00000169884	2	3	5	0	5	3
## ENSG00000125084	0	0	0	1	0	1
## ENSG00000181418	3	1	5	5	2	10
## ENSG00000181929	723	771	1061	864	1073	1065
## ENSG00000167548	1620	1928	2086	1829	1699	2068
## ENSG00000167550	3	8	7	17	7	15
## ENSG00000139549	0	0	1	0	0	0
## ENSG00000139636	412	443	594	800	821	1012
## ENSG00000123416	5410	6528	8208	1711	2050	2116
## ENSG00000167552	11342	12874	16226	6877	8277	9023
## ENSG00000167553	3329	4050	5254	1495	1801	1918
## ENSG00000135406	1	0	0	0	0	0
## ENSG00000135451	159	178	241	19	29	27
## ENSG00000186897	2	3	12	0	1	0
## ENSG00000178401	106	123	146	58	110	117

## ENSG00000123352	889	993	1290	1144	1356	1498
## ENSG00000135519	0	1	2	1	2	1
## ENSG00000187778	645	719	922	699	805	869
## ENSG00000110844	36	65	54	27	33	25
## ENSG00000135436	3	0	1	4	5	8
## ENSG00000161791	775	922	1157	1035	1161	1480
## ENSG00000139644	7483	8622	10915	11023	12164	14901
## ENSG00000167566	905	982	1231	495	572	634
## ENSG00000186666	32	36	36	38	35	44
## ENSG00000135472	65	52	97	64	61	63
## ENSG00000167580	0	0	0	0	0	0
## ENSG00000161798	0	0	0	0	0	0
## ENSG00000086159	0	1	0	0	0	0
## ENSG00000161800	739	897	1211	123	167	169
## ENSG00000110881	114	118	165	60	67	64
## ENSG00000066117	667	801	1101	878	972	1220
## ENSG00000167588	2	0	0	3	0	1
## ENSG00000178449	178	212	253	398	419	410
## ENSG00000139624	696	846	1045	1319	1403	1652
## ENSG00000050405	2638	2857	3605	958	1264	1252
## ENSG00000185958	1	1	1	0	0	0
## ENSG00000161813	801	887	1068	1590	1711	2128
## ENSG00000066084	775	835	1064	1489	1668	2090
## ENSG00000123268	248	279	359	201	249	279
## ENSG00000186452	0	0	0	0	0	0
## ENSG00000185432	101	98	130	47	49	73
## ENSG00000214511	0	0	0	0	0	0
## ENSG00000110911	608	697	817	426	460	582
## ENSG00000050426	199	232	316	337	361	388
## ENSG00000110925	610	672	866	853	946	1104
## ENSG00000135457	447	494	668	396	471	493
## ENSG00000184271	80	76	112	51	68	91
## ENSG00000183283	1326	1564	1986	3161	3436	4149
## ENSG00000170545	308	359	496	95	129	106
## ENSG00000110934	0	0	0	0	0	0
## ENSG00000139610	0	0	0	0	0	0
## ENSG00000139629	706	842	1133	207	286	270
## ENSG00000050438	180	246	253	53	71	69
## ENSG00000196876	300	342	403	212	214	229
## ENSG00000167612	1	0	0	3	3	6
## ENSG00000139567	115	148	183	645	688	998
## ENSG00000135503	396	420	568	1426	1445	1876
## ENSG00000161835	50	73	71	496	459	710
## ENSG00000123358	50	70	82	227	297	383
## ENSG00000123395	406	455	547	580	623	692
## ENSG00000167767	84	77	94	25	28	32
## ENSG00000135480	8	8	7	6	8	9
## ENSG00000170442	0	0	0	0	0	0
## ENSG00000205426	1	0	1	0	3	0
## ENSG00000170523	0	0	0	0	0	0
## ENSG00000135443	0	0	0	0	0	0
## ENSG00000161849	0	0	0	0	0	0
## ENSG00000161850	0	0	0	0	0	0
## ENSG00000170454	0	0	0	0	0	0

## ENSG00000185479	0	0	0	0	0	0
## ENSG00000170465	0	0	0	0	0	0
## ENSG00000205420	0	0	0	0	0	0
## ENSG00000186081	0	0	0	0	0	0
## ENSG00000139648	0	0	0	0	0	0
## ENSG00000170484	0	0	0	0	0	0
## ENSG00000170486	0	0	0	0	0	0
## ENSG00000186049	0	0	0	0	0	0
## ENSG00000172867	0	0	0	0	0	0
## ENSG00000167768	0	0	0	0	0	0
## ENSG00000189182	0	0	0	0	0	0
## ENSG00000185069	0	0	0	0	0	0
## ENSG00000186442	0	0	0	3	7	7
## ENSG00000170477	0	1	0	1	4	1
## ENSG00000185640	3	0	2	2	1	0
## ENSG00000170423	0	0	0	0	0	0
## ENSG00000170421	223	249	302	183	243	239
## ENSG00000111057	1180	1168	1656	1053	1294	1221
## ENSG00000063046	4006	4376	5515	6456	7142	7967
## ENSG00000111077	527	510	735	413	531	572
## ENSG00000167778	747	863	1121	1191	1313	1468
## ENSG00000167779	1029	1133	1377	1201	1368	1562
## ENSG00000167780	1	4	3	0	0	4
## ENSG00000139631	96	98	109	90	136	115
## ENSG00000139651	308	339	455	535	648	735
## ENSG00000139626	0	0	0	2	1	1
## ENSG00000172819	468	483	646	475	609	655
## ENSG00000182544	428	487	622	652	730	812
## ENSG00000135476	213	251	356	44	46	46
## ENSG00000123349	1827	2064	2363	1901	2140	2389
## ENSG00000139637	271	340	423	273	297	350
## ENSG00000094914	394	482	589	405	418	514
## ENSG00000170374	0	0	0	0	0	0
## ENSG00000185591	945	1102	1394	1293	1491	1694
## ENSG00000135409	0	0	0	0	0	0
## ENSG00000205352	509	618	694	516	631	708
## ENSG00000197111	1686	1880	2410	1787	2122	2479
## ENSG00000139625	303	300	423	752	737	914
## ENSG00000139546	327	386	545	421	469	548
## ENSG00000267281	5	2	1	4	3	3
## ENSG00000139574	0	0	0	0	0	0
## ENSG00000170653	264	313	397	399	460	517
## ENSG00000135390	1295	1556	1868	1589	1653	1957
## ENSG00000012822	917	984	1251	1742	1845	2181
## ENSG00000123364	0	0	0	0	0	0
## ENSG00000123407	0	0	0	0	0	0
## ENSG00000123388	0	0	0	1	0	0
## ENSG00000180818	0	1	1	0	0	0
## ENSG00000273049	0	0	0	0	0	0
## ENSG00000197757	7	10	15	10	9	3
## ENSG00000180806	1	3	8	13	5	7
## ENSG00000037965	29	33	44	15	26	13
## ENSG00000198353	5	9	3	5	7	5
## ENSG00000172789	1	1	0	0	1	1

## ENSG00000123415	232	226	286	232	269	295
## ENSG00000094916	2169	2805	2960	2050	2315	2557
## ENSG00000135486	6960	8320	10152	4567	5520	5998
## ENSG00000123405	1	4	8	1	1	1
## ENSG00000111481	1960	2285	2969	2130	2391	2688
## ENSG00000139572	0	0	1	0	0	0
## ENSG00000161642	104	125	162	155	164	227
## ENSG00000161638	13922	15597	20869	13550	14160	17232
## ENSG00000170627	0	0	0	0	0	0
## ENSG00000123338	0	0	0	0	0	0
## ENSG00000123360	0	0	0	1	0	1
## ENSG00000135447	0	0	0	0	0	0
## ENSG00000135413	0	0	0	0	0	0
## ENSG00000161634	0	0	0	0	0	0
## ENSG00000172551	0	1	0	0	0	0
## ENSG00000135426	0	0	0	0	0	0
## ENSG00000123307	0	0	0	0	0	0
## ENSG00000170605	0	0	0	0	0	0
## ENSG00000179919	0	0	0	0	0	0
## ENSG00000197706	0	0	0	0	0	0
## ENSG00000188324	0	0	0	0	0	0
## ENSG00000205330	0	0	0	0	0	0
## ENSG00000205329	0	0	0	0	0	0
## ENSG00000187857	0	0	0	0	0	0
## ENSG00000205328	0	0	0	0	0	0
## ENSG00000185821	0	0	0	0	0	0
## ENSG00000179695	0	0	0	0	0	0
## ENSG00000184954	0	0	0	0	0	0
## ENSG00000205327	0	0	0	0	0	0
## ENSG00000179626	0	0	0	0	0	0
## ENSG00000179615	0	0	0	0	0	0
## ENSG00000175398	0	0	0	0	0	0
## ENSG00000170439	12	16	22	6	1	9
## ENSG00000135424	378	375	547	253	318	357
## ENSG00000258311	5	14	6	4	6	9
## ENSG00000135441	75	66	126	60	75	102
## ENSG00000135437	10	13	18	3	3	6
## ENSG00000135404	10068	11517	14169	16077	16966	20130
## ENSG00000135414	633	737	904	865	919	1130
## ENSG00000205323	0	2	5	1	2	3
## ENSG00000257390	0	1	0	0	0	0
## ENSG00000123353	139	147	219	175	164	243
## ENSG00000135392	229	272	357	274	281	400
## ENSG00000123342	230	274	355	264	300	293
## ENSG00000170473	178	203	271	277	265	344
## ENSG00000065357	594	653	830	430	497	516
## ENSG00000185664	7	15	20	35	50	43
## ENSG00000123374	370	447	616	854	877	1127
## ENSG00000111540	1974	2358	2975	2603	2801	3321
## ENSG00000139531	184	198	280	199	220	246
## ENSG00000123411	148	136	193	164	192	208
## ENSG00000197728	1983	2282	2980	1561	1851	1975
## ENSG00000065361	8	5	3	8	2	3
## ENSG00000257411	0	0	0	0	0	0

## ENSG00000170515	1189	1327	1603	1081	1190	1425
## ENSG00000229117	2547	2836	3447	2610	2898	3412
## ENSG00000135482	62	70	98	127	112	153
## ENSG00000139641	3442	3665	5065	3226	3501	4282
## ENSG00000196465	614	715	876	842	911	1124
## ENSG00000092841	10110	11844	14455	9181	10719	12317
## ENSG00000139613	904	967	1268	980	1076	1234
## ENSG00000181852	996	1159	1446	1131	1335	1482
## ENSG00000139579	414	471	558	494	545	667
## ENSG00000139540	1	0	0	0	0	0
## ENSG00000139645	2962	3612	4396	4463	5024	5807
## ENSG00000135469	45	56	52	98	99	129
## ENSG00000062485	2296	2496	3269	2379	2575	2963
## ENSG00000144785	0	0	0	1	2	0
## ENSG00000257727	92	98	115	179	187	220
## ENSG00000135473	81	111	142	107	137	164
## ENSG00000110944	6	3	9	6	8	9
## ENSG00000170581	1006	1158	1426	1939	2185	2611
## ENSG00000175336	0	0	1	0	0	0
## ENSG00000111602	352	432	573	231	222	260
## ENSG00000135517	0	2	0	2	2	1
## ENSG00000176422	98	107	140	125	113	146
## ENSG00000135423	0	1	0	0	1	0
## ENSG00000076067	1470	1817	2153	1853	2089	2430
## ENSG00000076108	1072	1256	1609	2337	2474	2971
## ENSG00000110955	8417	9712	12348	10071	11046	13293
## ENSG00000110958	2668	3059	3844	3310	3608	4560
## ENSG00000196531	5041	5793	6910	5914	6539	7519
## ENSG00000198056	36	58	57	8	13	5
## ENSG00000025423	8	17	14	6	8	11
## ENSG00000170426	0	0	0	0	0	0
## ENSG00000139547	0	1	0	1	2	0
## ENSG00000166856	0	0	0	0	0	1
## ENSG00000166860	169	155	201	297	269	361
## ENSG00000166863	4	7	4	3	3	8
## ENSG00000166866	0	0	1	0	0	0
## ENSG00000166881	354	409	566	413	439	533
## ENSG00000166886	771	748	901	1373	1331	1704
## ENSG00000166888	1311	1484	1873	1927	2129	2671
## ENSG00000123384	24096	25352	33322	21767	23174	27017
## ENSG00000182379	83	67	103	92	85	91
## ENSG00000182199	2232	2431	3041	1331	1505	1749
## ENSG00000185633	28	19	26	11	17	17
## ENSG00000185482	3	4	8	1	8	7
## ENSG00000258830	0	0	0	0	0	0
## ENSG00000179912	275	321	381	301	316	349
## ENSG00000175189	0	0	0	1	0	1
## ENSG00000139269	62	50	71	1	7	8
## ENSG00000111087	41	55	54	9	16	4
## ENSG00000123329	4	5	3	4	4	2
## ENSG00000166986	2721	2965	3860	1866	2112	2452
## ENSG00000175197	135	131	139	144	168	219
## ENSG00000166987	380	420	534	525	527	682
## ENSG00000175203	1712	2067	2660	1504	1700	1916

## ENSG00000155980	8	10	20	3	5	8
## ENSG00000166908	368	442	533	570	636	806
## ENSG00000178498	144	148	212	307	299	312
## ENSG00000240771	148	165	227	162	170	193
## ENSG00000135502	2	7	4	2	5	2
## ENSG00000135454	38	50	58	48	64	68
## ENSG00000135506	2041	2261	2924	3380	3575	4299
## ENSG00000135439	7	6	11	6	18	8
## ENSG00000135452	180	228	270	235	232	316
## ENSG00000135446	892	1022	1293	1322	1451	1769
## ENSG00000139266	75	94	130	135	168	218
## ENSG00000111012	10	6	14	7	16	7
## ENSG00000037897	125	150	187	109	112	138
## ENSG00000123427	79	98	131	112	147	147
## ENSG00000257921	0	0	0	0	0	0
## ENSG00000123297	142	175	186	160	203	205
## ENSG00000135407	28	18	20	28	27	38
## ENSG00000175215	2284	2509	3280	3205	3745	4198
## ENSG00000166896	27	26	44	24	20	20
## ENSG00000139263	276	317	399	285	343	414
## ENSG00000118596	238	342	385	293	278	370
## ENSG00000198673	2	2	3	3	2	9
## ENSG00000135655	759	840	1094	692	884	1037
## ENSG00000061987	804	921	1215	898	1076	1148
## ENSG00000111110	17	28	21	46	53	42
## ENSG00000166148	1	0	0	0	0	0
## ENSG00000177990	21	26	17	35	46	43
## ENSG00000118600	120	161	160	176	155	212
## ENSG00000196935	1011	1172	1393	1685	1815	1959
## ENSG00000174206	48	47	65	78	69	91
## ENSG00000185306	1	0	0	0	0	0
## ENSG00000184575	2822	2993	3966	1802	2114	2283
## ENSG00000183735	303	390	512	623	698	809
## ENSG00000153179	612	680	850	536	606	687
## ENSG00000135677	3021	3474	4259	5979	6544	7819
## ENSG00000111490	1	9	6	9	8	11
## ENSG00000156076	0	0	0	0	1	0
## ENSG00000174106	405	505	654	632	742	861
## ENSG00000174099	1695	1820	2313	1083	1320	1335
## ENSG00000149948	7704	9110	11443	15124	15850	19524
## ENSG00000139233	262	317	381	111	120	138
## ENSG00000228144	0	0	0	0	0	0
## ENSG00000155957	92	110	116	141	174	153
## ENSG00000282031	0	0	0	0	0	0
## ENSG00000090376	26	30	49	32	30	42
## ENSG00000127311	41	58	50	30	34	50
## ENSG00000155974	3	3	4	4	3	4
## ENSG00000111530	2203	2552	3217	1882	2347	2666
## ENSG00000127334	384	504	647	493	547	673
## ENSG00000111537	0	0	0	0	0	0
## ENSG00000111536	0	0	0	0	0	0
## ENSG00000127318	0	0	0	0	0	0
## ENSG00000111554	61	72	95	58	88	72
## ENSG00000127314	1322	1534	1879	1473	1627	2125



## ENSG00000111581	391	469	548	348	420	484
## ENSG00000175782	181	205	225	216	293	287
## ENSG00000135679	1509	1631	1900	1244	1439	1580
## ENSG00000135678	70	100	132	47	45	52
## ENSG00000111605	992	1080	1390	1191	1326	1507
## ENSG00000090382	0	1	0	0	0	0
## ENSG00000127337	74	104	107	66	83	91
## ENSG00000166225	438	629	690	481	571	598
## ENSG00000166226	2685	3022	3780	3019	3526	4169
## ENSG00000198812	0	0	0	0	0	0
## ENSG00000127325	2	4	2	1	2	2
## ENSG00000127328	23	39	38	29	28	35
## ENSG00000258052	0	0	0	0	0	0
## ENSG00000166268	0	0	0	0	0	0
## ENSG00000111596	648	734	898	594	717	758
## ENSG00000279530	3	7	7	4	7	11
## ENSG00000135643	31	29	38	38	49	60
## ENSG00000127329	117	95	143	36	64	37
## ENSG00000153233	2	3	4	1	0	1
## ENSG00000127324	0	0	0	0	0	0
## ENSG00000139292	0	0	0	0	0	0
## ENSG00000133858	750	807	992	1280	1488	1621
## ENSG00000173451	64	72	78	81	89	102
## ENSG00000258064	0	0	0	0	0	0
## ENSG00000139291	187	236	290	108	148	168
## ENSG00000080371	785	964	1106	1082	1295	1382
## ENSG00000121749	399	419	549	528	577	725
## ENSG00000139287	0	1	1	0	0	1
## ENSG00000072657	2064	2445	3058	2815	3397	3900
## ENSG00000253719	1100	1247	1548	2059	2261	2723
## ENSG00000166006	0	0	0	0	0	0
## ENSG00000180881	7	10	16	14	16	23
## ENSG00000173401	0	0	1	1	1	1
## ENSG00000180481	0	1	1	1	5	1
## ENSG00000139278	3467	4141	5240	3807	4595	5362
## ENSG00000111615	384	441	607	1836	2037	2349
## ENSG00000139289	4199	4628	5655	19370	20822	27062
## ENSG00000187109	4928	5600	6913	5488	6416	7395
## ENSG00000179941	204	211	291	343	382	477
## ENSG00000091039	1758	2092	2564	5968	6675	8918
## ENSG00000186908	370	443	572	510	641	723
## ENSG00000175183	573	681	799	691	838	1003
## ENSG00000165891	445	581	716	910	888	1221
## ENSG00000067798	1498	1720	2065	1321	1436	1812
## ENSG00000067715	237	310	338	142	185	214
## ENSG00000177425	663	763	993	1020	1175	1404
## ENSG00000058272	1714	2000	2537	1840	2095	2356
## ENSG00000165899	2	4	4	3	1	3
## ENSG00000139304	17	17	25	2	4	1
## ENSG00000111046	0	0	0	0	0	0
## ENSG00000111049	0	0	0	0	0	0
## ENSG00000111052	357	384	562	139	192	183
## ENSG00000111058	29	34	34	21	17	35
## ENSG00000139220	1	0	1	1	0	1

## ENSG00000133773	202	268	321	244	250	339
## ENSG00000127720	39	45	66	74	70	106
## ENSG00000179104	46	64	58	90	154	171
## ENSG00000072041	106	128	151	4634	3838	6425
## ENSG00000231738	0	0	0	4	5	4
## ENSG00000133640	1	2	2	8	5	11
## ENSG00000180318	0	0	0	0	1	0
## ENSG00000198774	3	5	3	2	7	4
## ENSG00000133636	0	0	0	0	0	0
## ENSG00000182050	0	0	0	1	0	0
## ENSG00000165805	0	0	0	0	0	0
## ENSG00000133641	219	297	332	240	266	367
## ENSG00000198707	353	393	478	365	459	472
## ENSG00000139324	1076	1291	1556	1814	2073	2551
## ENSG00000049130	1257	1432	1795	2957	3623	4010
## ENSG00000139318	569	604	766	1931	2383	2688
## ENSG00000139323	194	217	263	389	417	466
## ENSG00000259075	1	0	0	0	2	0
## ENSG00000257594	17	18	29	27	32	28
## ENSG00000070961	1169	1277	1556	1174	1206	1609
## ENSG00000197651	0	0	0	0	0	1
## ENSG00000083782	0	0	1	0	0	0
## ENSG00000139330	0	0	0	0	0	0
## ENSG00000139329	791	896	1092	1016	1309	1459
## ENSG00000011465	7016	8512	10372	8625	10886	12143
## ENSG00000257242	0	4	4	2	4	6
## ENSG00000279037	0	0	0	0	0	0
## ENSG00000280112	0	0	0	0	0	0
## ENSG00000133639	570	726	890	2058	2150	2861
## ENSG00000205057	0	0	0	0	0	0
## ENSG00000257127	0	0	0	0	0	0
## ENSG00000214215	0	0	0	0	0	0
## ENSG00000187510	0	0	0	0	0	0
## ENSG00000102189	1134	1294	1701	1769	1961	2131
## ENSG00000173598	881	1084	1287	1254	1431	1640
## ENSG00000177889	1207	1406	1815	1134	1305	1478
## ENSG00000198015	522	676	755	796	926	1110
## ENSG00000120833	211	244	338	425	474	625
## ENSG00000169372	65	82	116	130	157	180
## ENSG00000136040	25	28	25	8	20	14
## ENSG00000173588	102	116	138	75	84	83
## ENSG00000057704	7	7	12	4	3	3
## ENSG00000184752	314	371	407	239	321	322
## ENSG00000120798	170	171	245	215	257	317
## ENSG00000180263	182	202	212	298	356	360
## ENSG00000028203	1043	1094	1453	942	1124	1301
## ENSG00000111142	1400	1525	1994	1627	2029	2104
## ENSG00000136014	437	416	514	119	135	140
## ENSG00000074527	634	718	962	594	862	754
## ENSG00000139343	339	406	492	372	385	418
## ENSG00000165972	1	0	0	0	0	1
## ENSG00000139344	1	2	1	1	5	0
## ENSG00000084110	0	0	0	2	2	2
## ENSG00000111144	589	641	837	630	707	810

## ENSG00000111145	1526	1832	2400	1775	2058	2595
## ENSG00000059758	954	1216	1396	1090	1236	1506
## ENSG00000188596	8	8	14	5	9	15
## ENSG00000139350	294	384	468	252	333	336
## ENSG00000120802	972	1168	1594	304	367	425
## ENSG00000075415	5157	6114	7726	6810	7639	8881
## ENSG00000166130	2052	2376	2832	2417	2849	2943
## ENSG00000120868	665	796	900	765	913	1055
## ENSG00000185046	0	0	2	7	10	10
## ENSG00000180219	0	0	0	0	0	0
## ENSG00000111647	510	635	811	772	865	1154
## ENSG00000075089	172	195	241	352	373	487
## ENSG00000166153	5	11	13	5	2	4
## ENSG00000136021	1245	1379	1808	1814	2229	2558
## ENSG00000179520	0	0	0	0	0	0
## ENSG00000012504	0	0	0	0	0	0
## ENSG00000139354	239	296	379	91	106	103
## ENSG00000151572	356	420	514	339	425	453
## ENSG00000256870	0	0	0	0	0	0
## ENSG00000120800	644	835	885	620	671	778
## ENSG00000120805	1548	1780	2222	1891	2309	2435
## ENSG00000166211	0	0	0	0	0	0
## ENSG00000196091	0	1	0	1	0	0
## ENSG00000111666	298	279	377	259	272	338
## ENSG00000139351	0	0	2	1	0	2
## ENSG00000111670	1133	1224	1518	1330	1493	1624
## ENSG00000136048	840	955	1237	1615	1734	1899
## ENSG00000120860	189	244	282	56	67	76
## ENSG00000075188	171	237	262	161	167	168
## ENSG00000281370	0	0	0	0	0	0
## ENSG00000185480	108	136	156	57	77	66
## ENSG00000183395	0	0	0	0	1	0
## ENSG00000017427	0	2	3	2	2	2
## ENSG00000171759	0	0	0	0	0	0
## ENSG00000139352	0	0	0	0	0	0
## ENSG00000179088	0	0	0	0	0	0
## ENSG00000136011	3	1	3	1	1	1
## ENSG00000111696	271	380	463	135	163	181
## ENSG00000166598	14038	14768	19397	17292	19038	21818
## ENSG00000204954	63	87	99	128	146	158
## ENSG00000139372	297	330	411	341	427	531
## ENSG00000120820	391	429	504	315	402	446
## ENSG00000111727	356	409	491	269	301	331
## ENSG00000120837	270	297	370	230	266	295
## ENSG00000198431	8973	10688	13013	9513	11402	13153
## ENSG00000255150	10	15	12	6	13	9
## ENSG00000171310	104	145	178	264	270	307
## ENSG00000136052	132	170	188	64	62	58
## ENSG00000151131	50	72	94	73	70	82
## ENSG00000136010	1552	1649	1971	252	350	244
## ENSG00000136051	1111	1295	1644	1664	1891	2287
## ENSG00000136044	846	1079	1254	736	977	1055
## ENSG00000235162	2397	2992	3642	935	1243	1179
## ENSG00000074590	487	595	735	388	407	431

## ENSG00000136026	12644	14499	18759	13472	15369	17221
## ENSG00000166046	93	94	113	213	187	240
## ENSG00000013503	312	336	407	206	258	255
## ENSG00000111783	0	0	0	1	0	0
## ENSG00000111785	185	220	238	215	247	294
## ENSG00000151135	2824	3087	3902	3476	4268	4624
## ENSG00000120832	42	42	50	33	33	32
## ENSG00000008405	290	353	439	259	294	345
## ENSG00000151136	66	72	95	78	64	97
## ENSG00000136045	915	1046	1332	870	931	1085
## ENSG00000110851	543	615	825	676	644	859
## ENSG00000187855	0	0	0	0	0	0
## ENSG00000075035	0	0	0	0	0	0
## ENSG00000174600	2	1	0	0	0	1
## ENSG00000198855	157	204	257	37	40	42
## ENSG00000075856	585	644	845	478	513	639
## ENSG00000136003	679	715	890	1114	1354	1555
## ENSG00000183160	89	91	100	29	41	33
## ENSG00000110876	133	111	173	71	75	62
## ENSG00000110880	8703	10408	13331	1986	2727	2638
## ENSG00000084112	2625	3209	3775	3468	3703	4310
## ENSG00000110887	0	0	0	0	0	0
## ENSG00000166111	0	0	0	0	0	0
## ENSG00000135093	131	133	173	128	159	171
## ENSG00000189046	72	77	86	71	78	108
## ENSG00000076248	176	190	297	284	325	401
## ENSG00000076555	35	38	70	165	142	230
## ENSG00000139445	0	0	0	0	0	0
## ENSG00000174527	3	3	7	4	8	6
## ENSG00000110906	1575	1861	2282	892	1080	1172
## ENSG00000151148	891	963	1169	1048	1015	1196
## ENSG00000139428	90	113	153	89	147	127
## ENSG00000110921	135	159	219	158	156	221
## ENSG00000139438	13	19	23	44	39	50
## ENSG00000111199	58	76	114	163	176	212
## ENSG00000139433	736	917	1127	598	697	783
## ENSG00000139437	215	277	351	175	186	237
## ENSG00000139436	550	661	763	447	534	572
## ENSG00000076513	2847	3518	4369	835	1145	1146
## ENSG00000174456	72	66	92	157	185	196
## ENSG00000122970	171	203	263	171	251	274
## ENSG00000174437	7080	8289	10198	11908	13133	15370
## ENSG00000196510	442	510	595	363	416	447
## ENSG00000111229	2036	2280	2899	2481	2640	3161
## ENSG00000111231	185	209	244	225	292	314
## ENSG00000204856	170	186	228	132	156	170
## ENSG00000111237	689	799	950	387	444	473
## ENSG00000151164	3	3	7	4	3	4
## ENSG00000196850	341	394	537	360	399	475
## ENSG00000204852	166	203	253	205	235	288
## ENSG00000122986	8	8	2	1	7	6
## ENSG00000186298	1463	1802	2265	1544	1809	2087
## ENSG00000173093	0	0	0	0	0	0
## ENSG00000111245	0	0	0	0	0	0

## ENSG00000111249	0	0	0	0	0	0
## ENSG00000198324	191	207	282	556	526	765
## ENSG00000111252	1056	1243	1542	1087	1237	1418
## ENSG00000204842	802	842	1035	987	1104	1327
## ENSG00000089234	322	360	516	437	492	538
## ENSG00000111271	194	230	253	219	288	281
## ENSG00000257767	0	0	0	0	0	0
## ENSG00000111275	480	558	699	670	732	921
## ENSG00000089022	303	324	467	475	527	642
## ENSG00000198270	47	49	56	47	47	69
## ENSG00000089248	1127	1286	1549	1609	1637	1959
## ENSG00000111300	629	720	869	520	621	669
## ENSG00000135148	845	911	1123	743	919	927
## ENSG00000173064	814	945	1062	1423	1454	1642
## ENSG00000089009	7623	8931	11045	8020	9036	10438
## ENSG00000179295	3739	4458	5485	4831	5650	6428
## ENSG00000089169	0	0	0	0	0	0
## ENSG00000089127	2	0	1	0	0	0
## ENSG00000111331	171	184	235	47	62	94
## ENSG00000111335	0	0	5	0	2	1
## ENSG00000135144	0	0	1	2	1	1
## ENSG00000111344	0	0	0	0	0	0
## ENSG00000186710	1	0	0	1	0	0
## ENSG00000123064	670	803	1047	581	581	717
## ENSG00000139405	177	214	275	168	161	244
## ENSG00000166578	3	2	6	3	2	6
## ENSG00000186815	366	437	574	684	712	902
## ENSG00000089060	138	159	184	183	226	256
## ENSG00000151176	2408	2683	3502	3753	3859	4589
## ENSG00000135094	0	1	1	0	2	1
## ENSG00000139410	36	49	62	44	64	71
## ENSG00000089116	0	0	0	1	0	0
## ENSG00000122965	514	638	732	405	425	550
## ENSG00000089225	272	299	426	384	463	530
## ENSG00000135111	1255	1445	1669	2857	3046	4038
## ENSG00000123066	1237	1545	1749	1502	1816	2042
## ENSG00000258102	7	13	11	19	28	21
## ENSG00000111412	768	876	1183	1116	1152	1407
## ENSG00000135119	20	15	21	14	6	23
## ENSG00000135116	0	0	0	0	0	0
## ENSG00000174989	551	621	751	439	530	545
## ENSG00000088992	0	1	1	8	2	2
## ENSG00000135108	530	602	758	631	669	921
## ENSG00000089250	0	0	0	0	0	1
## ENSG00000171435	0	0	0	0	0	0
## ENSG00000111445	103	123	163	77	66	125
## ENSG00000176871	2057	2401	3039	1013	1180	1391
## ENSG00000176834	135	185	238	112	156	183
## ENSG00000089220	1959	2347	3040	2871	3134	3825
## ENSG00000135090	949	1134	1311	985	1174	1271
## ENSG00000111707	615	693	750	599	654	737
## ENSG00000139767	0	0	0	0	1	1
## ENSG00000152137	388	418	562	166	196	224
## ENSG00000183273	0	1	0	0	3	0

## ENSG00000224982	0	0	0	0	0	0
## ENSG00000111725	236	303	329	372	398	507
## ENSG00000122966	426	536	674	45	79	64
## ENSG00000279777	0	0	0	0	0	0
## ENSG00000135127	2	4	1	2	0	0
## ENSG00000111737	899	1032	1424	738	844	997
## ENSG00000089154	3698	4120	5617	3263	3634	4129
## ENSG00000089157	15461	17693	22322	15265	17052	19752
## ENSG00000089159	3285	3756	5094	1382	1536	1816
## ENSG00000089163	14	9	12	17	21	19
## ENSG00000170890	1	0	0	0	0	0
## ENSG00000135097	0	0	1	0	1	0
## ENSG00000111775	342	384	458	392	438	521
## ENSG00000111780	0	0	0	0	0	0
## ENSG00000170855	400	442	538	931	987	1196
## ENSG00000257218	246	292	343	253	254	322
## ENSG00000111786	994	1094	1401	1110	1233	1436
## ENSG00000088986	2518	2854	3545	2592	2705	3322
## ENSG00000110871	221	241	328	200	208	264
## ENSG00000022840	2115	2360	3045	980	1066	1168
## ENSG00000167272	136	194	236	153	186	179
## ENSG00000157782	1	0	5	1	0	0
## ENSG00000110917	3154	3553	4396	2770	3060	3412
## ENSG00000175970	619	785	1015	638	685	784
## ENSG00000122971	42	47	69	33	35	40
## ENSG00000157837	466	532	646	758	796	944
## ENSG00000135100	0	0	0	0	0	2
## ENSG00000157895	209	257	318	120	169	168
## ENSG00000135114	0	1	3	6	3	2
## ENSG00000089041	9	8	10	2	5	1
## ENSG00000135124	110	125	129	113	117	148
## ENSG00000110931	743	856	1002	502	541	571
## ENSG00000089053	1655	1808	2363	1720	2043	2321
## ENSG00000170633	343	409	506	458	434	528
## ENSG00000089094	372	385	506	322	374	457
## ENSG00000276045	300	348	414	351	351	495
## ENSG00000139714	2	3	3	4	2	7
## ENSG00000188735	437	445	628	306	380	396
## ENSG00000139725	10	14	14	13	18	13
## ENSG00000139718	546	609	784	815	863	987
## ENSG00000158104	0	0	2	0	0	1
## ENSG00000110801	170	159	217	226	216	307
## ENSG00000256950	0	0	0	0	0	0
## ENSG00000158023	81	113	138	63	59	80
## ENSG00000110987	158	168	228	247	272	296
## ENSG00000175727	881	1066	1481	665	744	807
## ENSG00000158113	4	4	5	5	2	7
## ENSG00000204671	0	0	0	0	0	0
## ENSG00000176383	3	8	5	2	4	2
## ENSG00000184047	76	94	111	80	110	103
## ENSG00000256861	0	0	0	0	0	0
## ENSG00000139719	197	215	261	248	286	386
## ENSG00000130779	1853	1929	2528	1412	1640	1818
## ENSG00000033030	180	173	236	146	161	179

## ENSG00000111011	636	760	974	895	987	1160
## ENSG00000184445	246	300	370	97	154	165
## ENSG00000182782	0	1	0	0	0	1
## ENSG00000255398	0	0	0	0	0	0
## ENSG00000196917	0	0	0	0	0	0
## ENSG00000139726	1309	1590	1857	1572	1688	2061
## ENSG00000130783	6	1	1	8	6	13
## ENSG00000130787	258	273	405	202	244	263
## ENSG00000139722	509	556	739	795	873	1181
## ENSG00000150967	136	170	209	146	171	172
## ENSG00000111325	7	20	18	16	18	13
## ENSG00000182196	4	1	3	1	9	2
## ENSG00000090975	251	277	373	539	628	724
## ENSG00000051825	238	233	298	218	257	314
## ENSG00000130921	307	320	424	330	336	440
## ENSG00000111328	2119	2459	3171	2989	3217	3935
## ENSG00000139697	1055	1231	1399	1094	1214	1437
## ENSG00000183955	627	726	878	140	149	169
## ENSG00000150977	162	171	215	522	502	671
## ENSG00000184209	151	147	194	150	188	174
## ENSG00000188026	172	205	232	206	248	260
## ENSG00000086598	4165	4770	5964	4440	5179	5723
## ENSG00000111364	166	194	233	171	210	244
## ENSG00000111361	570	627	849	606	592	718
## ENSG00000111358	415	465	609	215	275	271
## ENSG00000168778	139	164	153	199	217	278
## ENSG00000185344	295	313	402	416	431	527
## ENSG00000197653	45	33	34	36	30	36
## ENSG00000119242	879	984	1316	608	689	724
## ENSG00000250091	62	75	69	51	54	41
## ENSG00000179195	1084	1266	1563	1475	1703	2124
## ENSG00000178882	0	0	0	0	0	0
## ENSG00000274874	0	0	0	0	0	0
## ENSG00000196498	3735	4248	5517	3541	3984	4532
## ENSG00000073060	419	481	617	643	690	814
## ENSG00000150991	11113	12927	16475	13070	14827	17000
## ENSG00000150990	477	526	730	537	549	687
## ENSG00000184992	123	180	193	95	121	144
## ENSG00000081760	589	753	940	892	954	1175
## ENSG00000139364	65	53	62	193	237	239
## ENSG00000181234	0	0	0	0	0	0
## ENSG00000139370	312	366	447	455	524	665
## ENSG00000151948	0	1	2	1	0	0
## ENSG00000151952	0	0	0	0	0	0
## ENSG00000111432	0	0	0	0	1	2
## ENSG00000125207	0	0	0	0	0	0
## ENSG00000060709	0	0	0	0	0	0
## ENSG00000111450	636	774	1045	632	772	821
## ENSG00000132341	4290	5081	6516	3579	3948	4702
## ENSG00000111452	0	3	1	1	2	1
## ENSG00000061936	410	453	581	387	476	519
## ENSG00000198598	112	108	146	191	192	228
## ENSG00000177169	709	677	1005	773	859	1013
## ENSG00000177192	204	238	273	245	249	284

## ENSG00000183495	1244	1421	1711	1283	1459	1742
## ENSG00000185684	104	117	127	129	135	171
## ENSG00000185163	306	366	519	310	378	442
## ENSG00000184967	249	282	338	254	258	312
## ENSG00000182870	8	10	10	12	14	17
## ENSG00000112787	379	472	618	718	712	932
## ENSG00000204583	1	3	2	1	4	0
## ENSG00000187848	0	0	0	0	0	0
## ENSG00000177084	478	616	773	315	356	410
## ENSG00000176894	38	38	53	29	33	30
## ENSG00000256632	0	0	0	0	0	0
## ENSG00000247077	450	494	659	453	539	695
## ENSG00000176915	1201	1325	1702	1386	1520	1802
## ENSG00000090615	2940	3519	4414	3558	3996	4613
## ENSG00000072609	371	513	612	702	753	856
## ENSG00000196458	332	386	449	609	644	694
## ENSG00000198393	120	115	156	159	199	208
## ENSG00000198040	251	269	333	551	584	711
## ENSG00000196387	116	113	121	212	252	280
## ENSG00000214029	36	43	46	67	64	66
## ENSG00000256223	31	45	43	101	84	137
## ENSG00000256825	0	0	0	0	0	0
## ENSG00000090612	220	225	315	303	328	351
## ENSG00000227059	0	0	0	0	0	0
## ENSG00000279081	0	2	3	0	0	0
## ENSG00000198033	0	0	0	0	0	0
## ENSG00000132958	0	0	0	0	0	0
## ENSG00000196199	637	655	851	829	1039	1148
## ENSG00000121390	426	535	641	585	678	758
## ENSG00000132950	118	129	174	146	175	159
## ENSG00000121741	784	771	1011	973	1061	1298
## ENSG00000121743	122	125	169	77	101	148
## ENSG00000165474	7	4	6	10	12	18
## ENSG00000121742	0	0	0	0	0	0
## ENSG00000165475	97	93	130	115	127	148
## ENSG00000032742	160	185	214	169	210	245
## ENSG00000172458	50	48	56	46	45	59
## ENSG00000150456	78	70	87	89	84	112
## ENSG00000132953	576	657	844	503	626	676
## ENSG00000150457	1120	1368	1632	1511	1709	2038
## ENSG00000150459	1170	1355	1679	1387	1532	1683
## ENSG00000165480	230	309	403	33	60	53
## ENSG00000173141	295	358	462	329	371	448
## ENSG00000180776	1234	1434	1794	1508	1724	2066
## ENSG00000165487	505	520	664	598	569	717
## ENSG00000102678	5	7	6	5	10	7
## ENSG00000279282	0	0	0	0	0	0
## ENSG00000280175	0	0	0	0	0	0
## ENSG00000102683	0	1	1	3	3	6
## ENSG00000151835	4031	4617	5149	3323	4208	4444
## ENSG00000127863	983	1170	1407	1307	1648	1842
## ENSG00000027001	270	320	405	403	460	486
## ENSG00000205863	2	0	4	3	3	1
## ENSG00000273167	0	2	2	2	0	2



## ENSG00000182957	312	395	478	699	778	1006
## ENSG00000240654	0	1	2	1	0	0
## ENSG00000281899	0	0	0	0	0	0
## ENSG00000102699	1527	1591	2148	1834	1953	2494
## ENSG00000075673	0	0	0	0	0	0
## ENSG00000132972	0	0	1	1	0	1
## ENSG00000151849	157	193	274	155	215	231
## ENSG00000151846	16	21	25	9	14	10
## ENSG00000165566	0	0	0	0	0	0
## ENSG00000139505	848	1037	1335	1043	1194	1356
## ENSG00000139496	818	976	1196	993	1175	1451
## ENSG00000132932	2	1	2	5	5	3
## ENSG00000180730	4	1	1	15	15	23
## ENSG00000127870	753	838	1117	1042	1157	1431
## ENSG00000132964	346	362	482	389	436	537
## ENSG00000132970	411	498	588	623	800	830
## ENSG00000132975	0	0	0	0	0	0
## ENSG00000152484	737	902	1123	725	923	1101
## ENSG00000122026	4061	4772	5620	3923	4503	4849
## ENSG00000122035	47	56	81	75	89	77
## ENSG00000122034	648	832	1024	454	468	526
## ENSG00000122033	240	273	327	319	335	404
## ENSG00000139517	131	145	196	248	262	353
## ENSG00000186184	667	797	895	919	1021	1239
## ENSG00000169840	0	0	0	0	0	0
## ENSG00000139515	0	0	0	0	0	0
## ENSG00000180389	2	2	7	3	3	4
## ENSG00000165556	0	0	0	0	1	1
## ENSG00000183463	0	0	0	0	0	0
## ENSG00000122025	0	0	0	0	0	0
## ENSG00000152520	292	339	424	268	283	336
## ENSG00000102755	329	401	467	784	915	1046
## ENSG00000132963	1412	1755	1989	1500	1733	1994
## ENSG00000139508	30	34	35	49	47	41
## ENSG00000132938	1	0	0	1	0	1
## ENSG00000139514	2129	2400	3055	443	619	517
## ENSG00000122042	1000	1234	1552	911	1009	1154
## ENSG00000102781	709	830	1089	598	676	810
## ENSG00000189403	2797	3351	4168	2348	2779	3446
## ENSG00000132952	225	236	275	314	358	470
## ENSG00000132965	2	4	4	0	3	5
## ENSG00000102802	32	31	42	156	199	241
## ENSG00000175664	1	1	0	0	0	0
## ENSG00000120694	2336	2649	3361	4889	5024	6485
## ENSG00000187676	138	183	228	111	129	157
## ENSG00000133105	0	0	0	0	0	0
## ENSG00000073910	399	439	553	1193	1185	1464
## ENSG00000189167	0	0	0	1	1	0
## ENSG00000139618	129	144	213	39	46	39
## ENSG00000139597	3	2	1	13	17	10
## ENSG00000244754	497	563	669	597	724	758
## ENSG00000083642	444	546	619	610	733	917
## ENSG00000133116	0	1	1	0	1	5
## ENSG00000133121	802	981	1236	1169	1350	1655

## ENSG00000133119	131	171	228	61	97	84
## ENSG00000172915	69	87	91	105	131	186
## ENSG00000180660	12	12	20	6	13	8
## ENSG00000133083	1	1	2	2	0	2
## ENSG00000120669	0	0	0	0	0	1
## ENSG00000250709	0	1	0	0	0	0
## ENSG00000242715	7	10	14	10	10	12
## ENSG00000133104	1020	1066	1386	1351	1578	1774
## ENSG00000133101	0	0	1	1	2	3
## ENSG00000180440	0	0	2	0	0	0
## ENSG00000133111	31	48	59	22	32	35
## ENSG00000120693	141	141	194	169	210	244
## ENSG00000120697	262	282	331	334	383	488
## ENSG00000120699	202	262	334	168	191	218
## ENSG00000102710	667	719	899	766	890	1068
## ENSG00000279238	2	2	1	0	2	0
## ENSG00000180138	1	3	2	0	0	0
## ENSG00000133110	2704	3450	4072	12478	16654	16148
## ENSG00000133107	52	49	73	111	121	132
## ENSG00000120686	1396	1637	1871	2186	2508	2788
## ENSG00000150893	0	0	0	0	0	0
## ENSG00000133115	0	0	0	0	0	0
## ENSG00000120685	517	507	664	769	875	1088
## ENSG00000188811	58	69	72	83	109	108
## ENSG00000183722	592	646	760	1117	1174	1380
## ENSG00000133103	694	799	984	751	941	926
## ENSG00000150907	4	3	2	8	12	13
## ENSG00000102738	105	142	181	109	149	161
## ENSG00000102743	93	82	113	317	327	451
## ENSG00000120690	589	678	807	1124	1291	1538
## ENSG00000120688	315	369	425	408	450	519
## ENSG00000165572	246	245	348	488	475	564
## ENSG00000120696	125	133	163	251	213	298
## ENSG00000120662	61	73	78	84	92	115
## ENSG00000172766	128	124	189	179	188	234
## ENSG00000102760	229	236	256	225	241	248
## ENSG00000102763	393	403	519	428	457	507
## ENSG00000102780	189	250	298	340	378	481
## ENSG00000023516	1166	1344	1625	1967	2298	2834
## ENSG00000120659	0	0	0	0	0	0
## ENSG00000179813	0	0	0	1	0	1
## ENSG00000133106	15	21	25	8	5	8
## ENSG00000120675	449	529	639	463	508	625
## ENSG00000120658	26	19	41	52	56	53
## ENSG00000151773	24	28	29	13	25	30
## ENSG00000179630	119	136	168	402	435	594
## ENSG00000281883	0	0	0	1	1	2
## ENSG00000139656	0	0	0	0	0	0
## ENSG00000151778	20	21	24	30	28	36
## ENSG00000102804	1241	1476	1849	1991	2099	2722
## ENSG00000083635	148	178	219	149	183	235
## ENSG00000133114	328	356	404	335	406	458
## ENSG00000188342	541	638	752	618	714	847
## ENSG00000180332	16	18	16	1	0	2

## ENSG00000133112	10726	12616	14349	11873	13619	15817
## ENSG00000174032	279	295	342	171	179	207
## ENSG00000136152	461	532	656	535	667	719
## ENSG00000165837	2	2	0	1	5	3
## ENSG00000174015	0	0	0	0	0	0
## ENSG00000215475	0	0	0	0	0	0
## ENSG00000123200	1201	1335	1751	1681	1902	2037
## ENSG00000080618	0	0	1	0	0	0
## ENSG00000136167	0	0	0	0	0	0
## ENSG00000173988	0	0	0	0	0	0
## ENSG00000102445	0	0	0	0	0	0
## ENSG00000136141	328	391	445	455	510	566
## ENSG00000139684	1035	1207	1485	719	862	935
## ENSG00000102468	0	0	0	0	2	0
## ENSG00000136143	538	644	771	516	619	712
## ENSG00000136159	294	333	423	220	269	308
## ENSG00000136146	248	289	338	248	306	359
## ENSG00000136156	2087	2553	3112	4452	4890	5678
## ENSG00000139687	725	842	1070	1087	1204	1507
## ENSG00000139679	35	19	59	102	118	150
## ENSG00000136161	120	132	147	175	176	229
## ENSG00000152207	0	0	0	1	0	0
## ENSG00000102531	1466	1707	2066	1382	1541	1820
## ENSG00000102539	0	0	1	0	5	0
## ENSG00000102543	62	65	80	101	83	111
## ENSG00000102547	365	454	561	508	602	643
## ENSG00000136169	156	178	243	193	224	265
## ENSG00000136147	140	144	187	215	234	236
## ENSG00000136144	529	606	769	634	783	923
## ENSG00000152213	0	0	0	0	0	0
## ENSG00000123179	240	303	358	257	280	338
## ENSG00000102753	1661	2137	2553	1710	2134	2426
## ENSG00000123178	278	334	412	276	371	384
## ENSG00000204977	251	298	360	394	411	501
## ENSG00000198553	0	2	0	2	0	0
## ENSG00000176124	25	29	38	14	17	25
## ENSG00000186047	0	0	0	0	0	0
## ENSG00000136104	116	136	194	91	120	141
## ENSG00000150510	2	3	3	1	1	1
## ENSG00000253309	3	3	2	4	5	5
## ENSG00000102786	487	589	724	562	582	706
## ENSG00000139668	475	548	720	349	371	431
## ENSG00000102796	20	12	32	10	20	15
## ENSG00000123171	0	0	0	0	0	0
## ENSG00000123191	124	160	209	176	173	197
## ENSG00000253710	175	171	220	157	147	188
## ENSG00000253797	538	580	649	380	416	442
## ENSG00000197168	4	9	5	4	8	5
## ENSG00000136098	46	83	97	55	62	80
## ENSG00000136114	120	122	167	68	105	99
## ENSG00000136100	371	418	480	395	468	521
## ENSG00000136108	914	1167	1377	252	341	360
## ENSG00000139675	40	47	53	32	32	29
## ENSG00000165416	775	949	1137	1261	1423	1720

## ENSG00000136110	0	0	0	0	0	0
## ENSG00000136099	0	0	0	0	0	0
## ENSG00000102837	0	0	0	0	0	0
## ENSG00000204919	0	0	0	0	0	0
## ENSG00000229665	0	0	0	0	0	0
## ENSG00000204918	0	0	0	0	0	0
## ENSG00000227151	0	0	0	0	0	0
## ENSG00000234278	0	0	0	0	0	0
## ENSG00000118946	0	0	0	0	1	1
## ENSG00000139734	508	638	779	75	112	81
## ENSG00000083544	105	125	169	133	152	155
## ENSG00000280165	0	0	0	0	0	0
## ENSG00000197991	0	0	0	0	0	0
## ENSG00000184226	355	441	529	531	617	663
## ENSG00000150361	0	0	0	0	0	0
## ENSG00000276644	15	14	21	428	433	563
## ENSG00000204899	315	371	540	140	210	210
## ENSG00000136122	43	65	81	12	21	19
## ENSG00000083520	908	1053	1346	1316	1528	1793
## ENSG00000083535	199	239	281	351	436	456
## ENSG00000102554	131	142	169	90	87	116
## ENSG00000118922	711	835	1035	718	828	933
## ENSG00000136111	318	365	487	331	371	367
## ENSG00000188243	487	604	645	587	611	671
## ENSG00000118939	54	59	83	32	55	47
## ENSG00000136153	5426	6077	7699	2367	2849	2926
## ENSG00000178734	4	5	6	0	1	2
## ENSG00000178695	357	431	590	219	262	250
## ENSG00000102794	0	0	0	0	0	0
## ENSG00000102805	167	202	268	197	231	287
## ENSG00000005812	606	746	905	474	521	607
## ENSG00000005810	1292	1406	1547	1493	1664	1834
## ENSG00000136155	0	0	0	0	0	0
## ENSG00000139737	0	2	0	0	3	2
## ENSG00000136160	5	9	10	204	184	343
## ENSG00000152192	0	0	0	0	0	1
## ENSG00000152193	113	131	128	113	118	174
## ENSG00000139746	646	688	891	682	781	891
## ENSG00000102471	736	818	1044	920	1001	1257
## ENSG00000136158	624	812	1039	1889	2290	2889
## ENSG00000178235	1	1	1	2	2	1
## ENSG00000184564	22	18	30	161	184	231
## ENSG00000165300	4	14	17	11	8	11
## ENSG00000179399	10	10	7	7	5	14
## ENSG00000183098	1178	1455	1690	528	640	674
## ENSG00000080166	0	0	0	0	0	0
## ENSG00000088451	109	103	163	136	167	197
## ENSG00000152749	528	653	717	325	380	440
## ENSG00000125285	0	0	0	0	0	0
## ENSG00000125257	2009	2242	2879	9011	9795	12212
## ENSG00000134873	0	0	0	0	0	1
## ENSG00000134874	797	939	1048	558	603	699
## ENSG00000102580	1288	1543	1879	1961	2114	2644
## ENSG00000102595	804	896	1149	1027	1332	1476

## ENSG00000185352	0	1	2	1	0	2
## ENSG00000165621	0	0	0	0	0	0
## ENSG00000139793	1387	1480	1936	1233	1429	1593
## ENSG00000125249	527	573	747	781	917	1121
## ENSG00000065150	4235	4960	6397	3052	3494	3906
## ENSG00000152767	2268	2653	3414	2622	3001	3242
## ENSG00000139797	1	0	0	0	2	0
## ENSG00000102572	734	828	1083	1374	1442	1784
## ENSG00000088386	0	0	0	0	0	0
## ENSG00000088387	115	139	164	139	122	153
## ENSG00000134882	485	536	772	455	495	575
## ENSG00000125245	1	0	1	0	0	1
## ENSG00000169508	0	3	3	0	1	2
## ENSG00000125304	2139	2511	3101	3526	3911	4629
## ENSG00000125246	5	5	1	2	2	2
## ENSG00000139800	0	0	0	0	0	0
## ENSG00000043355	0	0	0	3	0	3
## ENSG00000175198	135	135	173	181	212	257
## ENSG00000134864	36	49	45	10	10	23
## ENSG00000125247	121	114	178	131	141	143
## ENSG00000102452	268	284	419	171	212	194
## ENSG00000198542	390	382	512	204	248	220
## ENSG00000102466	17	17	18	8	19	25
## ENSG00000134900	1014	1170	1411	2305	2363	2992
## ENSG00000139780	0	0	0	0	0	0
## ENSG00000175820	3	1	6	4	2	1
## ENSG00000151287	73	106	139	79	101	90
## ENSG00000134901	274	309	384	489	522	641
## ENSG00000134897	228	225	298	271	289	300
## ENSG00000270181	0	0	0	0	0	0
## ENSG00000134899	203	271	322	282	345	372
## ENSG00000125255	0	0	0	0	0	0
## ENSG00000182346	0	0	0	0	0	0
## ENSG00000125266	336	365	496	364	432	528
## ENSG00000134884	645	679	828	725	870	997
## ENSG00000204442	615	751	895	1959	2125	2525
## ENSG00000174405	288	364	394	459	518	585
## ENSG00000139826	261	322	406	673	716	883
## ENSG00000102524	8	7	11	19	34	34
## ENSG00000041515	4	1	0	1	1	1
## ENSG00000185950	212	247	323	523	534	631
## ENSG00000187498	34207	37083	47611	65702	70406	89409
## ENSG00000134871	28563	32053	41399	50796	53967	69088
## ENSG00000139832	4	12	19	17	23	18
## ENSG00000213995	452	505	616	572	627	735
## ENSG00000134905	547	556	724	524	557	708
## ENSG00000153487	131	162	179	324	357	441
## ENSG00000088448	301	285	380	1594	1724	2329
## ENSG00000102606	746	854	1084	1121	1286	1526
## ENSG00000153495	5	5	5	4	1	2
## ENSG00000182968	0	1	0	0	0	0
## ENSG00000153498	0	0	0	0	0	0
## ENSG00000126216	280	341	449	286	263	364
## ENSG00000068650	830	957	1223	1112	1159	1243

## ENSG00000126217	0	2	1	0	0	0
## ENSG00000057593	1	2	1	1	3	6
## ENSG00000126218	82	86	113	126	155	135
## ENSG00000126231	2	2	1	1	3	3
## ENSG00000126226	524	568	724	496	599	641
## ENSG00000139842	1689	1918	2449	1838	2120	2493
## ENSG00000185896	5502	6304	8075	9948	10526	12286
## ENSG00000139835	5	12	13	12	13	11
## ENSG00000153531	12	6	8	7	7	12
## ENSG00000150401	152	147	161	128	151	160
## ENSG00000150403	1867	2110	2777	1207	1388	1662
## ENSG00000198176	1643	1930	2560	1478	1673	1961
## ENSG00000186009	0	0	2	0	0	0
## ENSG00000185974	0	0	0	0	0	0
## ENSG00000184497	138	156	222	75	76	92
## ENSG00000183087	8317	9245	11909	3918	4865	4755
## ENSG00000185989	1482	1695	2069	1791	1996	2558
## ENSG00000130177	1041	1196	1602	765	937	1006
## ENSG00000169062	436	531	687	649	704	925
## ENSG00000198824	624	676	790	835	922	1104
## ENSG00000257115	0	0	0	0	0	0
## ENSG00000222036	0	0	0	0	0	0
## ENSG00000279508	0	1	0	4	1	1
## ENSG00000187537	0	2	4	0	0	1
## ENSG00000258453	0	0	0	0	0	0
## ENSG00000176294	0	0	0	0	0	0
## ENSG00000182652	0	0	0	0	0	0
## ENSG00000176299	0	0	0	0	0	0
## ENSG00000165762	0	0	0	0	0	0
## ENSG00000176281	0	0	0	0	0	0
## ENSG00000155249	0	0	0	0	0	0
## ENSG00000169488	0	0	0	0	0	0
## ENSG00000169484	0	0	0	0	0	0
## ENSG00000176253	0	0	0	0	0	0
## ENSG00000176246	0	0	0	0	0	0
## ENSG00000176230	0	0	0	0	0	0
## ENSG00000184394	0	0	0	0	0	0
## ENSG00000196832	0	0	0	0	0	0
## ENSG00000176219	0	0	0	0	0	0
## ENSG00000176198	0	0	1	0	0	0
## ENSG00000136319	233	319	394	256	306	367
## ENSG00000100814	236	266	324	388	390	470
## ENSG00000129484	159	201	280	149	167	208
## ENSG00000129566	367	348	462	524	538	669
## ENSG00000185271	1	0	0	1	0	0
## ENSG00000092094	132	134	177	132	171	165
## ENSG00000100823	1392	1575	2011	2224	2343	2780
## ENSG00000165782	221	246	308	510	544	668
## ENSG00000198805	199	230	316	254	306	420
## ENSG00000182545	0	0	0	0	0	0
## ENSG00000188655	0	0	0	0	0	0
## ENSG00000259060	0	0	0	0	0	0
## ENSG00000173464	0	0	0	0	0	0
## ENSG00000258436	0	0	0	0	0	0

## ENSG00000181803	0	0	0	0	0	0
## ENSG00000258818	0	0	0	0	0	0
## ENSG00000214274	10	10	18	5	9	17
## ENSG00000259171	0	0	0	0	0	0
## ENSG00000181562	0	0	0	0	0	0
## ENSG00000181552	0	0	0	0	0	0
## ENSG00000169413	0	0	0	0	0	0
## ENSG00000129538	0	0	0	0	0	0
## ENSG00000169397	0	0	0	0	0	0
## ENSG00000169385	0	0	0	0	0	0
## ENSG00000165792	154	189	264	208	234	268
## ENSG00000165794	0	0	0	0	0	0
## ENSG00000165795	4	4	7	3	5	5
## ENSG00000179636	0	0	0	0	0	0
## ENSG00000206150	0	0	0	0	0	0
## ENSG00000165799	0	0	0	1	0	0
## ENSG00000173431	0	0	0	0	0	0
## ENSG00000165801	1199	1399	1730	1241	1393	1747
## ENSG00000165804	167	166	259	367	462	546
## ENSG00000232070	0	0	1	0	2	1
## ENSG00000169327	0	0	0	0	0	0
## ENSG00000092199	5351	6581	7686	5194	5363	6771
## ENSG00000092200	2	1	1	3	4	2
## ENSG00000092201	1585	1852	2310	1835	2058	2372
## ENSG00000100888	1331	1552	1878	1540	1592	1813
## ENSG00000129472	232	288	370	566	608	701
## ENSG00000092203	967	1107	1402	868	970	1063
## ENSG00000165819	381	443	563	422	433	518
## ENSG00000165821	279	247	359	129	117	163
## ENSG00000169208	0	0	0	0	0	0
## ENSG00000255582	0	0	0	0	0	0
## ENSG00000221977	0	0	0	0	0	0
## ENSG00000129562	1398	1674	2054	1935	2019	2464
## ENSG00000100439	474	471	633	853	939	1098
## ENSG00000255804	0	0	0	1	0	0
## ENSG00000279510	0	0	0	0	0	0
## ENSG00000155463	918	1031	1281	1463	1537	1881
## ENSG00000155465	49	49	49	42	53	68
## ENSG00000172590	558	659	849	543	580	729
## ENSG00000157227	11426	13202	16743	30299	30763	38364
## ENSG00000197324	5366	6030	8184	7615	8392	9737
## ENSG00000139890	1	0	0	0	6	2
## ENSG00000100461	510	588	719	756	830	1037
## ENSG00000100462	638	736	935	469	522	608
## ENSG00000092036	48	39	61	47	38	42
## ENSG00000259132	0	0	0	0	0	0
## ENSG00000129474	866	995	1301	854	909	1063
## ENSG00000100802	39	38	41	37	25	34
## ENSG00000100804	1829	2040	2603	2016	2162	2566
## ENSG00000222028	0	0	2	0	0	0
## ENSG00000139880	190	207	263	190	174	221
## ENSG00000100813	2068	2218	2862	2431	2682	3142
## ENSG00000179933	903	965	1275	1236	1336	1486
## ENSG00000092067	0	0	0	0	0	0

## ENSG00000092068	3	7	4	16	14	15
## ENSG00000215277	0	2	1	2	1	2
## ENSG00000215271	132	129	192	71	74	82
## ENSG00000235194	24	36	37	27	35	38
## ENSG00000129473	785	966	1092	1246	1446	1746
## ENSG00000258643	7	9	11	6	2	11
## ENSG00000100836	507	640	690	732	781	960
## ENSG00000092096	511	570	725	792	885	1046
## ENSG00000100842	266	347	389	335	356	442
## ENSG00000166090	0	0	0	0	0	0
## ENSG00000166091	0	0	0	0	0	0
## ENSG00000197616	0	0	0	0	0	0
## ENSG00000092054	0	0	0	0	0	0
## ENSG00000129460	183	208	314	203	233	253
## ENSG00000136367	134	114	141	48	57	60
## ENSG00000259431	45	48	52	47	36	51
## ENSG00000213983	25	30	34	35	39	51
## ENSG00000092051	0	0	0	0	2	0
## ENSG00000100867	0	0	3	2	3	2
## ENSG00000157326	178	187	215	156	184	193
## ENSG00000187630	98	106	136	108	137	146
## ENSG00000186648	3	0	0	0	1	0
## ENSG00000100884	0	0	0	0	0	0
## ENSG00000129535	6	2	10	11	11	9
## ENSG00000100889	529	515	672	127	173	145
## ENSG00000100897	370	432	542	516	579	669
## ENSG00000259371	0	0	0	0	0	0
## ENSG00000139914	0	2	1	1	0	2
## ENSG00000092010	558	654	844	531	618	699
## ENSG00000100908	83	112	107	67	69	94
## ENSG00000100911	669	718	893	699	779	865
## ENSG00000092098	179	211	244	277	274	338
## ENSG00000259529	3	4	2	7	7	5
## ENSG00000213928	3	2	11	9	9	8
## ENSG00000100918	8	10	16	15	23	17
## ENSG00000196497	14	9	19	7	8	9
## ENSG00000259522	0	0	0	0	0	1
## ENSG00000100926	102	109	158	158	165	196
## ENSG00000254692	0	0	0	0	0	0
## ENSG00000139908	13	25	16	15	16	14
## ENSG00000254505	12	7	5	13	14	18
## ENSG00000213920	1	2	0	0	5	1
## ENSG00000255526	0	0	0	0	0	0
## ENSG00000129559	497	573	673	575	624	793
## ENSG00000100938	585	576	825	647	724	800
## ENSG00000092330	343	384	495	610	560	737
## ENSG00000092295	10	1	4	9	8	8
## ENSG00000100949	339	366	445	702	741	896
## ENSG00000157379	165	201	269	145	164	178
## ENSG00000196943	507	626	720	777	788	979
## ENSG00000136305	0	0	0	0	0	0
## ENSG00000213906	3	7	8	5	16	14
## ENSG00000213903	12	8	18	36	38	52
## ENSG00000129467	0	0	0	0	1	0



## ENSG00000258973	0	0	0	0	0	0
## ENSG00000129465	0	0	0	2	0	0
## ENSG00000100968	532	546	742	1031	1152	1382
## ENSG00000205978	411	454	616	549	585	671
## ENSG00000139899	31	30	61	31	29	46
## ENSG00000100441	667	722	897	1233	1315	1735
## ENSG00000100445	16	25	45	35	39	26
## ENSG00000092009	0	0	1	0	0	0
## ENSG00000100448	0	0	0	0	0	0
## ENSG00000100450	0	0	0	0	0	0
## ENSG00000100453	0	0	0	1	0	0
## ENSG00000168952	158	206	252	30	52	42
## ENSG00000281282	0	0	0	0	0	0
## ENSG00000139910	46	54	46	40	47	48
## ENSG00000176165	1	1	0	3	1	2
## ENSG00000184304	325	306	483	371	426	476
## ENSG00000092140	365	407	516	343	439	492
## ENSG00000092108	835	909	1150	856	1039	1079
## ENSG00000100473	3	2	2	2	0	1
## ENSG00000196792	679	739	898	738	900	1026
## ENSG00000100478	96	89	133	112	119	124
## ENSG00000092148	2852	3119	3735	3242	3697	4271
## ENSG00000129493	528	559	672	561	573	628
## ENSG00000203546	1	5	1	2	3	0
## ENSG00000129480	191	217	255	165	219	216
## ENSG00000214943	0	0	0	0	0	0
## ENSG00000151413	173	178	240	142	144	218
## ENSG00000100852	921	943	1336	969	1148	1242
## ENSG00000151320	20	34	18	304	349	423
## ENSG00000151322	0	0	0	12	13	23
## ENSG00000129521	1	2	2	2	5	5
## ENSG00000165389	438	488	578	798	860	1013
## ENSG00000129518	244	275	272	371	465	442
## ENSG00000129515	1497	1675	2138	1710	2034	2296
## ENSG00000165410	2009	2479	3038	1294	1539	1673
## ENSG00000198604	761	938	1112	1348	1553	1918
## ENSG00000100883	1087	1310	1605	1212	1527	1713
## ENSG00000151327	753	865	1065	649	748	880
## ENSG00000092020	260	322	376	449	503	642
## ENSG00000100890	70	86	89	87	115	111
## ENSG00000258790	0	1	1	1	2	5
## ENSG00000100902	173	204	227	187	231	251
## ENSG00000100906	438	431	566	440	371	570
## ENSG00000168348	0	0	0	0	2	0
## ENSG00000174373	212	248	280	173	219	237
## ENSG00000100916	114	137	161	156	169	206
## ENSG00000151332	168	225	194	114	189	207
## ENSG00000229415	0	0	0	0	0	0
## ENSG00000136352	0	0	0	0	0	0
## ENSG00000136327	0	0	0	0	0	0
## ENSG00000198807	0	0	1	1	1	0
## ENSG00000183032	22	21	20	45	56	56
## ENSG00000151338	103	96	133	101	130	132
## ENSG00000129514	4	3	2	7	6	4

## ENSG00000139865	1	0	0	0	1	0
## ENSG00000139874	209	240	325	411	516	536
## ENSG00000176435	119	115	186	111	135	112
## ENSG00000100934	4957	6018	7281	5560	6791	7391
## ENSG00000092208	59	53	78	44	54	64
## ENSG00000182400	364	445	512	692	724	826
## ENSG00000100941	921	984	1312	870	1060	1178
## ENSG00000150526	0	0	0	0	0	0
## ENSG00000258941	0	0	0	0	0	0
## ENSG00000150527	14	25	34	42	44	46
## ENSG00000165355	245	269	392	597	624	841
## ENSG00000165379	59	73	99	172	171	226
## ENSG00000189139	0	0	0	0	0	0
## ENSG00000179476	54	78	109	70	97	103
## ENSG00000179454	108	119	182	455	495	558
## ENSG00000198718	238	259	311	368	380	508
## ENSG00000185246	218	235	310	300	345	396
## ENSG00000100442	404	505	567	301	333	373
## ENSG00000187790	98	106	130	71	90	84
## ENSG00000129534	240	272	357	161	182	204
## ENSG00000165496	0	0	1	0	0	0
## ENSG00000139915	0	1	1	1	1	2
## ENSG00000213741	2085	2312	2741	1972	2168	2366
## ENSG00000165501	107	150	195	71	83	103
## ENSG00000165502	1158	1407	1691	1253	1401	1575
## ENSG00000168282	78	88	123	96	75	110
## ENSG00000165506	113	126	175	200	225	302
## ENSG00000100479	48	60	76	9	13	11
## ENSG00000197776	14	16	20	12	19	18
## ENSG00000165516	288	325	425	365	453	497
## ENSG00000165525	589	683	818	958	1153	1261
## ENSG00000165527	1752	1989	2526	1939	2147	2633
## ENSG00000100483	75	89	90	106	136	135
## ENSG00000100485	455	487	597	456	544	627
## ENSG00000087299	58	82	80	48	66	65
## ENSG00000125375	93	107	132	68	98	122
## ENSG00000100490	8	14	25	8	12	7
## ENSG00000012983	1344	1546	2038	1761	2256	2551
## ENSG00000198513	165	177	249	115	118	140
## ENSG00000151748	498	607	708	868	905	1212
## ENSG00000100503	1810	2140	2553	1854	2152	2242
## ENSG00000100504	647	734	965	381	401	442
## ENSG00000131969	0	2	2	2	1	0
## ENSG00000100505	1	0	2	7	7	3
## ENSG00000139921	922	1054	1363	539	671	754
## ENSG00000139926	7307	8976	10739	7092	9345	9596
## ENSG00000186469	473	543	588	1395	1638	2100
## ENSG00000087302	1383	1622	1989	1610	1900	2082
## ENSG00000087303	5376	5700	7751	11512	11874	15611
## ENSG00000168229	0	0	0	1	1	0
## ENSG00000125384	762	915	1124	146	179	150
## ENSG00000087301	30	59	61	19	25	38
## ENSG00000180998	48	47	49	48	72	96
## ENSG00000197930	936	1062	1343	584	661	792

## ENSG00000100519	932	1115	1254	1000	1164	1414
## ENSG00000198252	600	700	831	771	951	1078
## ENSG00000100522	821	946	1106	649	729	797
## ENSG00000073712	3207	3520	4493	714	950	883
## ENSG00000100523	377	433	495	338	381	456
## ENSG00000125378	84	97	120	171	169	206
## ENSG00000100526	146	186	226	18	14	17
## ENSG00000100528	1277	1610	1861	1835	2139	2432
## ENSG00000197045	1744	2058	2492	950	1152	1312
## ENSG00000100532	96	131	155	132	168	204
## ENSG00000020577	1314	1595	1857	1567	1727	2029
## ENSG00000131979	8	14	27	25	21	36
## ENSG00000198554	215	251	322	79	111	139
## ENSG00000180008	521	631	733	668	780	842
## ENSG00000168175	1548	1741	2219	2394	2699	3186
## ENSG00000131981	1625	1927	2254	1827	2179	2521
## ENSG00000126787	487	611	819	73	83	92
## ENSG00000279392	7	6	7	4	8	7
## ENSG00000178974	372	392	591	338	388	463
## ENSG00000126775	307	306	411	450	481	564
## ENSG00000182521	0	0	0	0	0	0
## ENSG00000126777	3670	4018	5118	6846	7478	8908
## ENSG00000139946	150	172	189	250	256	335
## ENSG00000070269	260	260	359	187	210	237
## ENSG00000165588	0	0	0	0	0	0
## ENSG00000070367	1453	1665	2044	1826	2111	2492
## ENSG00000053770	415	460	540	479	513	631
## ENSG00000139977	484	589	722	728	860	1110
## ENSG00000100557	0	0	0	0	0	0
## ENSG00000151812	0	0	0	0	0	0
## ENSG00000139971	188	216	268	223	224	282
## ENSG00000131966	767	920	997	960	1131	1260
## ENSG00000100567	826	1012	1213	1057	1209	1505
## ENSG00000032219	203	228	323	274	296	346
## ENSG00000196860	3	0	4	1	0	1
## ENSG00000100575	165	195	242	228	240	280
## ENSG00000100578	300	365	407	354	393	418
## ENSG00000165617	152	175	218	665	653	904
## ENSG00000100592	169	179	260	243	264	336
## ENSG00000181619	72	58	85	47	71	60
## ENSG00000126790	225	233	295	145	233	210
## ENSG00000050130	650	785	980	1034	1138	1428
## ENSG00000151838	0	0	0	0	0	0
## ENSG00000139970	14	21	29	11	15	17
## ENSG00000131951	0	0	0	0	0	0
## ENSG00000126773	1341	1452	1890	1670	2057	2364
## ENSG00000100612	568	644	840	1466	1515	1905
## ENSG00000100614	511	528	675	830	914	1089
## ENSG00000179008	8	16	12	7	17	16
## ENSG00000184302	0	0	0	0	0	0
## ENSG00000126778	314	436	458	136	181	215
## ENSG00000100625	478	508	641	536	546	700
## ENSG00000020426	249	311	367	299	295	353
## ENSG00000126814	198	235	278	215	232	294

## ENSG00000139974	129	153	184	316	342	407
## ENSG00000027075	5	16	18	23	20	14
## ENSG00000182107	2	1	6	1	5	4
## ENSG00000258989	0	0	0	0	0	0
## ENSG00000100644	7111	8258	10428	13064	14322	18294
## ENSG00000023608	125	138	184	193	207	281
## ENSG00000139973	78	82	86	89	110	129
## ENSG00000140015	3	2	5	38	59	65
## ENSG00000126785	383	421	530	269	349	342
## ENSG00000179600	0	0	0	0	0	0
## ENSG00000154001	876	1035	1238	967	1080	1251
## ENSG00000140006	107	117	121	129	110	140
## ENSG00000126821	401	509	571	417	461	554
## ENSG00000054654	161	162	189	88	89	71
## ENSG00000140009	1	1	0	2	1	4
## ENSG00000100714	774	969	1239	588	666	769
## ENSG00000089775	75	86	89	107	138	129
## ENSG00000179841	26	27	47	9	3	2
## ENSG00000126804	415	459	559	780	811	1028
## ENSG00000126803	192	223	290	650	700	888
## ENSG00000165807	3	3	6	8	6	5
## ENSG00000126822	67	73	108	96	82	98
## ENSG00000070182	3	6	10	3	3	7
## ENSG00000279654	0	0	0	0	0	0
## ENSG00000258289	389	399	506	480	583	665
## ENSG00000125954	0	0	0	0	0	0
## ENSG00000176153	2	0	3	0	4	1
## ENSG00000139998	221	259	326	217	261	284
## ENSG00000257365	106	99	130	94	102	92
## ENSG00000125952	412	460	591	786	815	977
## ENSG00000033170	458	578	749	571	661	760
## ENSG00000171723	128	139	181	84	103	106
## ENSG00000172717	1	2	2	1	1	4
## ENSG00000072415	1026	1121	1442	725	888	1012
## ENSG00000100554	1171	1386	1636	1314	1523	1792
## ENSG00000134001	1337	1613	2030	1205	1368	1642
## ENSG00000100558	18	17	34	24	31	36
## ENSG00000198133	8	5	12	4	3	7
## ENSG00000054690	6	2	5	7	8	8
## ENSG00000100564	58	71	114	86	103	107
## ENSG00000081181	23	31	25	31	27	44
## ENSG00000100568	906	1057	1245	733	828	975
## ENSG00000258466	1	0	0	2	1	1
## ENSG00000072042	924	1074	1462	1663	1845	2236
## ENSG00000139988	0	0	1	0	0	1
## ENSG00000072121	520	579	785	558	558	673
## ENSG00000182185	28	30	44	23	22	27
## ENSG00000185650	1345	1349	1778	1354	1533	1644
## ENSG00000072110	19585	21971	28854	13502	15436	16897
## ENSG00000139990	614	762	930	639	703	830
## ENSG00000081177	335	356	441	195	252	256
## ENSG00000100626	47	65	83	36	43	42
## ENSG00000100632	864	1071	1301	906	1103	1241
## ENSG00000029364	1241	1542	1883	2186	2396	2703

## ENSG00000175985	0	1	0	0	1	1
## ENSG00000267909	0	0	0	0	0	0
## ENSG00000100647	510	577	779	1996	2145	2767
## ENSG00000100650	1116	1366	1796	1454	1845	2136
## ENSG00000100652	1	0	0	0	1	0
## ENSG00000198732	100	123	142	236	220	294
## ENSG00000100678	1	1	2	1	2	5
## ENSG00000133983	34	47	48	34	57	51
## ENSG00000258644	1	0	0	0	0	0
## ENSG00000213463	515	604	668	622	709	833
## ENSG00000139985	5	2	5	1	4	0
## ENSG00000134007	0	0	0	1	2	1
## ENSG00000133997	168	158	248	176	221	247
## ENSG00000133985	2	3	0	6	6	10
## ENSG00000006432	27	25	43	23	36	46
## ENSG00000100731	1364	1676	1801	2188	2372	2724
## ENSG00000197555	839	969	1248	1187	1186	1486
## ENSG00000182732	0	1	0	0	0	0
## ENSG00000280188	0	0	0	0	0	0
## ENSG00000205683	418	481	624	87	138	106
## ENSG00000119599	163	190	257	124	141	160
## ENSG00000165861	465	529	694	929	985	1154
## ENSG00000119707	1498	1720	2209	1773	2072	2361
## ENSG00000080815	942	1034	1280	1871	2070	2549
## ENSG00000100767	13	8	18	19	23	31
## ENSG00000133961	1510	1782	2299	1963	2014	2543
## ENSG00000187105	4	5	2	2	2	6
## ENSG00000170468	172	177	264	169	188	201
## ENSG00000184227	54	56	90	65	70	65
## ENSG00000119673	220	250	296	209	268	283
## ENSG00000177465	4	4	3	13	17	13
## ENSG00000205669	0	0	0	0	0	0
## ENSG00000119661	196	232	253	231	289	354
## ENSG00000176903	1044	1284	1545	2119	2138	2648
## ENSG00000156030	579	586	876	379	466	485
## ENSG00000140043	30	32	46	29	46	56
## ENSG00000258653	0	0	0	0	0	0
## ENSG00000119725	6	9	9	11	7	9
## ENSG00000156050	67	70	102	90	94	116
## ENSG00000119723	73	61	97	91	95	140
## ENSG00000187097	369	398	466	340	432	423
## ENSG00000279461	0	1	0	0	0	0
## ENSG00000119636	40	49	44	29	34	30
## ENSG00000119711	192	169	248	140	184	221
## ENSG00000205659	117	128	173	87	88	97
## ENSG00000119614	0	0	0	0	0	0
## ENSG00000119688	162	190	244	238	261	358
## ENSG00000133980	0	0	0	0	0	0
## ENSG00000183379	0	0	0	0	0	0
## ENSG00000119655	716	849	1031	1922	2083	2480
## ENSG00000165898	115	147	180	163	147	166
## ENSG00000119681	9874	10615	14388	7678	8799	9344
## ENSG00000119682	1050	1107	1541	1530	1577	1808
## ENSG00000119616	600	682	843	652	723	876

## ENSG00000119596	1411	1611	2059	1592	1835	2029
## ENSG00000119608	2	2	3	2	1	3
## ENSG00000119689	1544	1810	2274	1478	1641	1960
## ENSG00000198208	7	4	13	8	2	6
## ENSG00000119630	1	6	8	17	25	23
## ENSG00000119718	327	358	453	369	398	504
## ENSG00000119684	127	131	231	152	177	202
## ENSG00000119640	39	51	59	42	73	69
## ENSG00000119703	6	8	13	9	13	9
## ENSG00000119638	1013	1148	1466	1174	1317	1468
## ENSG00000170348	3484	3953	5101	4741	5326	6266
## ENSG00000170345	22	25	42	61	88	96
## ENSG00000140044	591	572	705	244	309	294
## ENSG00000156127	0	0	0	0	0	0
## ENSG00000119686	21	24	33	11	16	17
## ENSG00000119685	272	351	437	189	188	245
## ENSG00000133935	251	299	393	223	261	356
## ENSG00000119650	120	142	176	171	178	214
## ENSG00000119699	35	41	38	59	116	96
## ENSG00000089916	775	926	1126	1387	1593	1820
## ENSG00000119715	0	0	0	1	1	1
## ENSG00000071246	398	429	557	585	571	723
## ENSG00000013523	179	223	234	215	235	300
## ENSG00000100565	0	0	0	0	0	0
## ENSG00000119669	909	1092	1447	1938	2100	2628
## ENSG00000198894	172	194	252	250	276	341
## ENSG00000259164	0	0	0	0	0	0
## ENSG00000165548	0	0	1	0	0	0
## ENSG00000177108	0	0	0	1	1	0
## ENSG00000165553	0	0	0	0	0	0
## ENSG00000009830	454	531	700	888	868	1118
## ENSG00000100577	71	90	106	91	102	123
## ENSG00000100580	165	207	236	251	301	350
## ENSG00000100583	14	10	7	25	14	29
## ENSG00000165555	0	8	5	5	5	9
## ENSG00000280308	0	0	0	0	0	1
## ENSG00000151445	318	363	481	356	415	466
## ENSG00000100591	1072	1234	1594	1425	1500	1698
## ENSG00000100593	3	2	2	1	0	0
## ENSG00000100596	1375	1631	1971	1244	1527	1578
## ENSG00000100601	136	135	171	160	143	192
## ENSG00000119705	328	373	470	318	328	451
## ENSG00000100603	748	813	1007	682	770	863
## ENSG00000197734	0	0	0	1	0	0
## ENSG00000063761	54	49	73	51	73	80
## ENSG00000021645	352	463	529	76	156	119
## ENSG00000211448	479	498	618	2841	3570	3946
## ENSG00000100629	123	149	168	36	29	38
## ENSG00000165409	0	0	0	1	0	0
## ENSG00000165417	709	853	1081	679	773	961
## ENSG00000140022	0	0	0	0	2	0
## ENSG00000071537	2631	2977	3787	3497	3951	4640
## ENSG00000185070	569	612	718	1162	1292	1493
## ENSG00000054983	319	332	421	470	536	651

## ENSG00000140030	2	0	1	4	1	1
## ENSG00000100433	0	0	0	0	1	1
## ENSG00000042317	117	148	187	223	267	315
## ENSG00000070778	725	810	1098	665	770	897
## ENSG00000100722	635	814	1027	617	824	917
## ENSG00000165521	145	181	218	49	67	58
## ENSG00000165533	368	467	578	412	458	554
## ENSG00000053254	924	1141	1305	985	1148	1205
## ENSG00000140025	39	55	63	33	42	55
## ENSG00000042088	284	367	472	181	250	275
## ENSG00000152315	0	0	0	0	1	1
## ENSG00000100764	656	870	1015	703	835	856
## ENSG00000119720	156	136	203	169	192	191
## ENSG00000198668	3979	4658	5666	2869	3464	3758
## ENSG00000165914	449	517	658	224	230	280
## ENSG00000100784	10	15	8	17	16	19
## ENSG00000133943	84	109	128	191	148	196
## ENSG00000119714	21	24	54	60	67	79
## ENSG00000015133	2	7	2	0	4	5
## ENSG00000100796	731	898	1027	621	712	802
## ENSG00000133962	0	0	0	0	0	0
## ENSG00000165929	0	1	4	2	2	3
## ENSG00000140092	2245	2455	3161	3667	4252	4743
## ENSG00000100815	839	852	1040	829	899	1063
## ENSG00000066427	176	176	213	341	353	465
## ENSG00000279963	0	0	1	1	0	0
## ENSG00000183648	261	283	380	301	291	331
## ENSG00000165934	1088	1259	1601	832	1038	1155
## ENSG00000140090	0	1	0	3	2	1
## ENSG00000100599	469	537	724	589	659	729
## ENSG00000100600	309	359	484	435	559	611
## ENSG00000066455	877	1004	1248	745	902	993
## ENSG00000100604	0	0	0	0	0	0
## ENSG00000100605	346	386	510	265	293	331
## ENSG00000165943	230	255	353	415	457	592
## ENSG00000153485	38	42	55	73	88	98
## ENSG00000259066	0	0	1	0	2	2
## ENSG00000170270	69	83	96	120	119	129
## ENSG00000012963	397	537	653	231	275	329
## ENSG00000011114	758	865	969	1048	1265	1412
## ENSG00000133958	8	14	17	12	15	27
## ENSG00000187581	1	0	0	0	0	1
## ENSG00000175785	0	0	0	0	0	0
## ENSG00000140067	0	0	0	0	0	0
## ENSG00000100628	4	13	9	1	1	2
## ENSG00000089723	62	65	86	69	76	109
## ENSG00000089737	1718	1876	2532	2399	2691	3125
## ENSG00000165948	116	119	155	128	157	153
## ENSG00000165949	5	3	2	5	12	8
## ENSG00000119632	451	465	621	381	458	506
## ENSG00000119698	8	7	9	2	3	1
## ENSG00000140093	0	0	0	0	0	0
## ENSG00000170099	0	0	0	0	1	0
## ENSG00000197249	9	13	17	19	18	31

## ENSG00000186910	0	0	0	0	0	0
## ENSG00000170054	1	1	6	2	1	4
## ENSG00000165953	0	0	0	0	0	0
## ENSG00000100665	0	0	0	0	0	0
## ENSG00000188488	0	0	1	0	0	1
## ENSG00000273259	0	0	0	0	0	0
## ENSG00000196136	1	0	1	0	0	0
## ENSG00000133937	0	0	0	0	1	0
## ENSG00000100697	1417	1561	1830	1337	1592	1784
## ENSG00000165959	1	1	3	1	1	4
## ENSG00000176438	312	339	397	162	151	159
## ENSG00000182512	537	652	824	812	853	972
## ENSG00000213231	0	0	0	0	0	0
## ENSG00000100721	0	0	0	0	0	0
## ENSG00000168398	1105	1212	1542	2563	2908	3543
## ENSG00000258691	0	1	1	0	1	0
## ENSG00000100739	656	759	986	749	832	1025
## ENSG00000066739	605	699	879	1379	1506	1699
## ENSG00000100744	278	346	429	560	592	717
## ENSG00000140057	0	0	0	1	1	0
## ENSG00000090060	2252	2658	3332	2233	2416	2929
## ENSG00000100749	161	175	233	111	111	130
## ENSG00000176605	0	0	0	0	0	0
## ENSG00000127152	1	0	0	1	3	2
## ENSG00000183576	611	672	936	426	532	555
## ENSG00000090061	221	240	314	172	202	243
## ENSG00000205476	363	438	562	251	281	326
## ENSG00000182218	43	35	51	35	38	51
## ENSG00000036530	11	12	8	4	8	9
## ENSG00000066629	735	838	1024	1029	1238	1393
## ENSG00000196405	337	422	502	361	489	452
## ENSG00000168350	0	0	0	0	0	0
## ENSG00000100811	1386	1626	1971	1801	2104	2406
## ENSG00000197119	266	316	378	628	660	822
## ENSG00000140107	0	0	1	0	0	0
## ENSG00000140105	3060	3332	3995	2352	2749	3001
## ENSG00000176473	142	155	156	152	210	226
## ENSG00000183092	12	11	16	16	15	14
## ENSG00000185559	19	30	36	130	110	225
## ENSG00000254656	2	3	2	4	3	1
## ENSG00000197406	2	1	2	7	9	7
## ENSG00000078304	1178	1383	1698	1259	1578	1717
## ENSG00000197102	13773	15596	17570	19913	20478	23680
## ENSG00000080824	16805	19025	24748	15381	16477	20364
## ENSG00000140153	289	327	422	311	361	412
## ENSG00000080823	150	189	215	107	122	146
## ENSG00000022976	71	80	107	84	91	83
## ENSG00000100865	361	413	556	347	409	432
## ENSG00000196663	732	828	1054	1077	1071	1401
## ENSG00000156381	294	283	431	304	305	397
## ENSG00000089902	571	687	881	619	767	768
## ENSG00000131323	764	945	1172	967	1042	1290
## ENSG00000166126	1	3	4	4	2	8
## ENSG00000198752	2639	2993	3771	3338	3762	4332



## ENSG00000205436	0	0	0	0	0	0
## ENSG00000185215	69	106	117	105	117	169
## ENSG00000100664	3820	4638	5781	3375	4030	4459
## ENSG00000075413	1334	1458	1901	1607	1890	2136
## ENSG00000166165	371	426	560	400	413	541
## ENSG00000166166	280	351	415	348	397	412
## ENSG00000166170	546	627	841	571	649	758
## ENSG00000126214	563	685	862	763	826	963
## ENSG00000256053	160	187	228	172	211	203
## ENSG00000256500	0	0	0	0	0	0
## ENSG00000126215	65	92	113	63	79	74
## ENSG00000100711	463	504	674	366	451	536
## ENSG00000088808	71	89	116	35	57	62
## ENSG00000156411	582	661	804	740	821	866
## ENSG00000156414	0	0	0	0	1	0
## ENSG00000227729	0	0	0	0	0	0
## ENSG00000166183	0	0	0	0	0	0
## ENSG00000066735	1	0	0	0	0	2
## ENSG00000258986	1	3	0	2	1	1
## ENSG00000184601	0	0	0	0	0	0
## ENSG00000203485	1994	2269	2925	1944	2038	2524
## ENSG00000185100	18	23	30	24	15	37
## ENSG00000184990	398	464	558	475	508	585
## ENSG00000142208	2126	2483	3233	2706	3010	3432
## ENSG00000179627	51	71	97	52	52	61
## ENSG00000099814	1175	1361	1818	1726	1896	2325
## ENSG00000166428	0	1	1	1	0	1
## ENSG00000185567	566	670	800	212	204	216
## ENSG00000140104	76	92	100	99	121	121
## ENSG00000170779	165	189	253	165	165	204
## ENSG00000183484	1	3	0	4	3	4
## ENSG00000184916	13	15	35	13	25	14
## ENSG00000183828	77	51	90	170	141	228
## ENSG00000185024	396	450	593	443	512	606
## ENSG00000184887	631	646	918	326	357	423
## ENSG00000179364	596	669	879	860	994	1219
## ENSG00000226174	5	5	4	9	9	13
## ENSG00000182979	554	649	883	662	746	875
## ENSG00000182809	608	664	911	951	1003	1190
## ENSG00000213145	0	0	1	0	0	0
## ENSG00000257341	0	0	0	0	0	0
## ENSG00000185347	59	87	97	26	28	33
## ENSG00000184986	32	26	35	46	28	40
## ENSG00000277322	0	0	0	0	0	0
## ENSG00000230031	0	0	0	0	0	0
## ENSG00000278522	0	0	0	0	0	0
## ENSG00000182974	0	0	0	0	0	0
## ENSG00000279408	0	0	0	0	0	0
## ENSG00000233917	0	0	0	0	0	0
## ENSG00000274102	0	0	0	0	0	0
## ENSG00000183706	0	0	0	0	0	0
## ENSG00000277865	0	0	0	0	0	0
## ENSG00000170113	312	351	454	303	354	414
## ENSG00000140157	895	1004	1234	1010	1102	1344

## ENSG00000273749	2780	3130	4108	2352	2604	2942
## ENSG00000275835	246	297	366	231	304	297
## ENSG00000273976	0	0	0	0	0	0
## ENSG00000261739	0	1	0	0	0	0
## ENSG00000174450	0	0	0	0	0	0
## ENSG00000179455	1	1	3	0	2	1
## ENSG00000281873	0	0	0	0	0	0
## ENSG00000254585	19	31	38	66	65	67
## ENSG00000182636	508	573	765	939	1045	1225
## ENSG00000185823	0	0	0	1	1	0
## ENSG00000128739	181	195	232	225	256	359
## ENSG00000273173	4	3	2	4	5	9
## ENSG00000214265	0	0	0	0	0	0
## ENSG00000279735	1	0	0	1	0	1
## ENSG00000114062	1296	1505	1979	1656	1839	2109
## ENSG00000206190	673	828	1024	303	385	332
## ENSG00000166206	6	3	10	15	13	15
## ENSG00000186297	31	34	36	10	10	9
## ENSG00000182256	0	0	0	0	0	0
## ENSG00000104044	0	0	0	0	0	0
## ENSG00000128731	1425	1645	1872	1874	2142	2635
## ENSG00000153684	0	0	0	0	0	0
## ENSG00000183629	0	0	0	0	0	0
## ENSG00000188626	0	1	2	1	0	2
## ENSG00000034053	467	571	713	927	929	1229
## ENSG00000104059	1	0	2	1	2	3
## ENSG00000185115	257	315	415	266	281	337
## ENSG00000104067	2104	2254	2829	2213	2360	2727
## ENSG00000179938	0	0	0	0	0	0
## ENSG00000261247	0	1	0	0	0	0
## ENSG00000166664	0	0	0	0	0	0
## ENSG00000186399	4	3	5	1	1	0
## ENSG00000178115	0	0	1	0	1	1
## ENSG00000261794	1	1	1	1	0	0
## ENSG00000187951	75	92	102	18	18	21
## ENSG00000198690	239	237	361	249	249	307
## ENSG00000166912	314	367	438	232	268	334
## ENSG00000134160	0	1	0	0	0	0
## ENSG00000169926	624	808	987	1365	1498	1756
## ENSG00000169918	1	0	2	1	2	4
## ENSG00000175344	0	0	0	0	3	6
## ENSG00000249931	0	0	1	0	0	0
## ENSG00000206127	0	1	3	0	1	1
## ENSG00000232653	8	14	1	4	4	7
## ENSG00000198826	680	986	1135	193	292	290
## ENSG00000166922	108	110	137	242	260	322
## ENSG00000166923	25841	28706	35810	35421	42286	46421
## ENSG00000248905	1321	1716	1877	705	931	792
## ENSG00000198838	19	15	19	20	10	23
## ENSG00000169857	342	370	504	229	277	311
## ENSG00000184984	3	0	1	2	1	0
## ENSG00000134153	853	977	1226	869	925	1068
## ENSG00000182405	78	87	105	63	90	117
## ENSG00000134152	340	399	489	608	664	867

## ENSG00000128463	622	727	972	862	1006	1192
## ENSG00000140199	401	457	531	665	712	865
## ENSG00000182117	754	818	1044	1119	1219	1493
## ENSG00000184507	1	0	0	0	0	0
## ENSG00000176454	287	301	419	256	267	335
## ENSG00000175265	80	73	116	152	189	217
## ENSG00000215252	53	45	50	100	125	114
## ENSG00000159248	0	0	0	0	3	0
## ENSG00000159251	16	20	27	17	27	24
## ENSG00000021776	714	900	1113	880	1053	1182
## ENSG00000198146	432	467	565	337	363	442
## ENSG00000255192	0	1	0	0	0	0
## ENSG00000134146	60	62	65	41	55	70
## ENSG00000186073	195	219	255	108	143	137
## ENSG00000134138	561	641	732	179	223	200
## ENSG00000166069	0	0	0	0	0	0
## ENSG00000166068	1170	1423	1701	1842	2077	2494
## ENSG00000171262	523	737	783	325	388	384
## ENSG00000172575	16	17	20	9	10	9
## ENSG00000175779	0	0	0	0	0	1
## ENSG00000137801	85271	96726	126147	77128	101773	93497
## ENSG00000150667	10	8	9	12	16	13
## ENSG00000166073	2970	3457	4257	708	948	945
## ENSG00000128829	2727	3005	3794	2575	3039	3381
## ENSG00000140319	2730	3155	3726	2930	3168	3736
## ENSG00000104081	58	62	84	1515	1499	1939
## ENSG00000156970	348	452	588	58	63	61
## ENSG00000259288	0	0	0	0	0	0
## ENSG00000137843	0	0	0	0	1	0
## ENSG00000137841	2	10	2	3	2	3
## ENSG00000230778	0	0	0	0	0	0
## ENSG00000188549	1012	1103	1416	973	1049	1315
## ENSG00000233041	0	0	0	0	0	1
## ENSG00000140323	69	75	97	103	99	125
## ENSG00000128944	440	501	627	251	305	388
## ENSG00000128928	863	958	1220	466	526	579
## ENSG00000140320	391	454	593	459	538	616
## ENSG00000169105	408	461	587	815	877	1002
## ENSG00000128891	132	143	188	190	200	233
## ENSG00000166133	108	119	137	122	115	138
## ENSG00000137812	396	523	614	60	85	69
## ENSG00000279084	0	0	0	0	0	0
## ENSG00000051180	101	146	174	26	33	40
## ENSG00000137824	575	623	765	591	684	761
## ENSG00000137880	1	1	2	0	1	0
## ENSG00000104129	122	132	151	83	108	96
## ENSG00000188277	11	7	18	13	13	10
## ENSG00000166140	161	172	213	226	246	291
## ENSG00000166143	0	0	0	0	0	0
## ENSG00000166145	16	26	21	64	60	68
## ENSG00000104140	2	3	3	4	4	6
## ENSG00000104142	702	839	1070	1400	1337	1776
## ENSG00000128917	134	162	187	2315	2447	3129
## ENSG00000128965	976	1062	1285	3017	3115	3781

## ENSG00000128908	510	645	752	388	492	531
## ENSG00000178997	0	0	0	1	0	1
## ENSG00000187446	1541	1888	2321	2373	2612	3040
## ENSG00000104147	19	40	47	1	4	3
## ENSG00000137804	409	547	653	65	77	77
## ENSG00000137806	212	219	277	303	326	408
## ENSG00000137815	994	1199	1412	1669	1974	2265
## ENSG00000137825	52	61	74	64	67	68
## ENSG00000062524	7	10	11	8	11	18
## ENSG00000103932	519	587	799	657	625	813
## ENSG00000092445	541	574	739	138	143	163
## ENSG00000174197	578	562	741	778	785	878
## ENSG00000137802	480	578	748	554	629	725
## ENSG00000279937	0	2	1	2	1	1
## ENSG00000243789	0	3	1	1	0	1
## ENSG00000168970	9	11	12	9	14	8
## ENSG00000243708	1	2	3	1	1	1
## ENSG00000137877	14	16	23	10	12	14
## ENSG00000103966	999	1173	1499	465	578	601
## ENSG00000188089	0	0	0	0	0	0
## ENSG00000159337	0	0	0	0	1	0
## ENSG00000168907	0	0	0	0	0	0
## ENSG00000166887	1255	1336	1737	889	964	1097
## ENSG00000103978	596	704	844	1051	1174	1409
## ENSG00000214013	130	178	217	170	229	226
## ENSG00000092529	1	1	1	0	3	0
## ENSG00000103994	2285	2592	3087	1880	2161	2314
## ENSG00000092531	659	737	883	743	874	996
## ENSG00000180979	259	288	391	415	435	554
## ENSG00000137814	256	294	397	249	242	301
## ENSG00000159433	123	148	144	155	128	173
## ENSG00000140326	246	231	310	224	229	235
## ENSG00000128881	180	177	226	178	214	260
## ENSG00000159459	900	1050	1371	873	942	1098
## ENSG00000166947	0	0	0	0	1	1
## ENSG00000137842	97	110	134	87	128	142
## ENSG00000166946	414	481	587	541	559	689
## ENSG00000104055	0	0	0	0	0	0
## ENSG00000159495	0	0	0	0	0	0
## ENSG00000168806	134	132	166	126	126	207
## ENSG00000168803	65	84	126	73	84	94
## ENSG00000140265	234	263	297	338	380	401
## ENSG00000137822	151	209	260	139	131	188
## ENSG00000067369	1233	1357	1676	1731	1980	2275
## ENSG00000166963	10387	11572	14903	8127	9028	9981
## ENSG00000168781	124	126	170	62	89	83
## ENSG00000237289	0	0	0	0	0	0
## ENSG00000242866	0	0	0	0	0	0
## ENSG00000166762	2	2	6	3	7	0
## ENSG00000223572	0	0	0	0	1	0
## ENSG00000167004	7301	8126	10247	9553	10625	11807
## ENSG00000128886	1	2	1	4	1	0
## ENSG00000262560	0	0	0	0	0	0
## ENSG00000140264	3098	3511	4429	3631	4042	4516

## ENSG00000279808	0	0	0	0	0	0
## ENSG00000184716	0	0	0	0	0	0
## ENSG00000242028	8	10	9	15	10	2
## ENSG00000140259	523	583	734	512	512	605
## ENSG00000092470	114	133	166	25	35	19
## ENSG00000171877	144	212	241	84	126	91
## ENSG00000166734	1926	2207	2663	2339	2689	3133
## ENSG00000137770	345	422	447	254	316	371
## ENSG00000104131	1190	1438	1676	1012	1281	1411
## ENSG00000104133	618	701	899	677	744	884
## ENSG00000229474	1	1	3	1	0	3
## ENSG00000166710	6809	7938	9795	9981	11966	13411
## ENSG00000185880	164	139	221	58	77	89
## ENSG00000167014	0	0	0	0	0	0
## ENSG00000140263	205	223	301	117	145	170
## ENSG00000140279	0	0	1	0	1	0
## ENSG00000140274	0	0	0	0	0	0
## ENSG00000140254	0	0	0	1	0	1
## ENSG00000137857	9	7	14	10	12	14
## ENSG00000138606	33	36	64	77	89	110
## ENSG00000137860	0	2	0	1	2	0
## ENSG00000171766	0	0	4	0	3	2
## ENSG00000171763	138	156	159	197	206	235
## ENSG00000166920	3	6	5	0	5	5
## ENSG00000104154	171	238	294	124	158	199
## ENSG00000104164	1054	1211	1468	2380	2737	3186
## ENSG00000260170	0	0	0	1	1	0
## ENSG00000137767	143	147	186	217	276	294
## ENSG00000259752	0	0	0	0	0	0
## ENSG00000137872	435	521	635	1798	1872	2620
## ENSG00000188467	0	0	0	0	0	0
## ENSG00000104177	182	253	266	118	152	192
## ENSG00000233932	0	0	0	0	0	0
## ENSG00000074803	0	0	0	0	0	1
## ENSG00000128951	339	472	523	288	343	402
## ENSG00000166147	16516	18654	22810	15970	18851	19911
## ENSG00000103995	90	133	169	60	92	86
## ENSG00000185634	72	64	98	98	96	129
## ENSG00000255302	3667	4442	5465	6367	7330	8647
## ENSG00000138593	1228	1444	1662	2650	2901	3432
## ENSG00000166200	1472	1710	2144	1384	1614	1718
## ENSG00000156958	134	158	203	178	197	254
## ENSG00000166262	16	22	34	39	38	46
## ENSG00000140285	851	1005	1202	2122	2382	2823
## ENSG00000104047	237	242	305	442	468	615
## ENSG00000104043	15	11	18	54	49	73
## ENSG00000140284	0	0	1	1	0	1
## ENSG00000140287	0	0	0	0	0	0
## ENSG00000104064	336	410	547	459	544	647
## ENSG00000138592	718	821	984	828	958	1227
## ENSG00000170236	0	1	0	0	0	0
## ENSG00000092439	810	958	1093	1166	1241	1480
## ENSG00000138600	821	997	1139	881	968	1175
## ENSG00000081014	340	433	488	290	396	373

## ENSG00000183578	25	17	27	22	23	30
## ENSG00000137869	1	0	1	2	1	4
## ENSG00000186417	1	0	3	0	2	0
## ENSG00000104093	464	525	717	465	593	580
## ENSG00000104112	1	1	0	0	0	1
## ENSG00000140280	99	94	125	59	70	69
## ENSG00000128872	575	633	776	754	870	906
## ENSG00000138594	1207	1338	1633	1507	1784	2037
## ENSG00000166477	381	476	483	474	596	630
## ENSG00000069956	1259	1608	1978	2632	3045	3586
## ENSG00000137875	1	0	0	0	0	1
## ENSG00000069966	195	239	255	198	229	264
## ENSG00000128833	0	0	0	0	2	0
## ENSG00000197535	1820	2122	2517	1458	1788	1941
## ENSG00000280817	0	0	0	0	0	0
## ENSG00000128989	1567	1963	2387	1696	1960	2297
## ENSG00000047346	281	282	371	545	614	726
## ENSG00000169856	0	0	0	0	1	1
## ENSG00000166415	0	0	0	0	0	0
## ENSG00000137766	0	0	0	4	9	12
## ENSG00000137876	818	1004	1188	973	1180	1287
## ENSG00000069974	251	286	358	265	281	358
## ENSG00000225973	38	48	43	55	53	66
## ENSG00000069943	106	102	135	105	120	166
## ENSG00000260916	144	184	205	167	214	239
## ENSG00000261652	9	6	15	7	6	6
## ENSG00000256061	0	2	1	1	4	2
## ENSG00000171016	170	171	203	108	102	136
## ENSG00000166450	14	16	22	17	19	28
## ENSG00000069869	1551	1873	2228	1677	2039	2267
## ENSG00000181827	367	434	546	422	510	561
## ENSG00000151575	10	17	19	12	17	21
## ENSG00000138587	14	13	19	5	8	4
## ENSG00000137871	267	306	324	292	315	433
## ENSG00000140262	1978	2129	2730	1350	1618	1808
## ENSG00000128849	9	7	8	7	7	12
## ENSG00000137878	0	0	0	0	0	0
## ENSG00000263155	0	0	0	0	0	0
## ENSG00000255529	301	413	378	233	280	323
## ENSG00000128918	6	5	4	2	3	2
## ENSG00000103569	0	0	0	0	1	0
## ENSG00000166035	0	1	1	0	0	1
## ENSG00000137845	3103	3483	4439	4481	5308	6116
## ENSG00000128923	620	779	994	644	833	841
## ENSG00000157450	525	644	724	504	535	609
## ENSG00000137776	890	987	1290	1036	1143	1399
## ENSG00000157456	381	521	633	42	59	64
## ENSG00000157483	707	833	1028	460	587	589
## ENSG00000171989	0	0	0	0	0	1
## ENSG00000157470	1	1	0	1	2	0
## ENSG00000140297	0	0	2	0	0	1
## ENSG00000140307	506	579	729	638	725	794
## ENSG00000140299	1025	1218	1529	1569	1946	2157
## ENSG00000171956	0	0	0	0	0	0

## ENSG00000182718	29756	33969	44291	17711	20763	22464
## ENSG00000128915	332	367	478	330	408	426
## ENSG00000069667	116	133	176	325	334	387
## ENSG00000129003	937	1017	1140	1855	2137	2211
## ENSG00000198535	0	0	0	0	1	2
## ENSG00000205502	0	0	0	0	0	1
## ENSG00000171914	790	902	1037	860	963	1074
## ENSG00000140416	14365	16903	20784	7093	9692	9092
## ENSG00000103642	698	824	976	553	705	686
## ENSG00000185088	1605	1888	2203	2312	2613	2843
## ENSG00000166128	580	697	879	545	699	742
## ENSG00000138613	280	310	424	292	273	376
## ENSG00000074410	440	423	598	58	77	79
## ENSG00000140455	203	214	277	242	298	334
## ENSG00000197361	9	7	5	5	5	4
## ENSG00000103657	1164	1395	1515	1522	1608	1716
## ENSG00000035664	8	12	13	12	26	22
## ENSG00000166797	281	301	351	86	104	117
## ENSG00000028528	1026	1139	1430	1273	1468	1636
## ENSG00000157734	19	11	7	17	22	16
## ENSG00000166794	3258	3582	4532	4589	5038	6043
## ENSG00000169118	456	562	709	279	312	358
## ENSG00000259316	0	1	0	0	0	0
## ENSG00000166803	207	221	291	33	61	38
## ENSG00000103671	300	351	467	285	302	371
## ENSG00000180357	1084	1333	1598	1022	1072	1338
## ENSG00000180304	1112	1282	1645	1937	2242	2572
## ENSG00000166831	47	67	75	43	50	53
## ENSG00000140451	85	98	141	35	39	39
## ENSG00000241839	579	694	851	582	623	695
## ENSG00000249240	0	0	0	0	0	0
## ENSG00000166839	28	30	44	39	49	66
## ENSG00000090487	770	949	1146	1309	1395	1680
## ENSG00000103707	145	206	219	123	126	177
## ENSG00000186198	0	0	0	0	2	4
## ENSG00000103710	7	4	7	6	6	11
## ENSG00000234438	0	0	0	0	0	0
## ENSG00000246922	14	10	20	19	21	28
## ENSG00000090470	224	309	328	256	270	330
## ENSG00000166855	545	646	762	704	834	896
## ENSG00000138615	2	1	3	4	0	7
## ENSG00000138617	64	82	90	31	42	45
## ENSG00000174498	3	1	5	1	0	2
## ENSG00000103742	213	210	268	237	243	275
## ENSG00000074603	667	741	894	885	1061	1155
## ENSG00000074696	1702	2037	2492	1823	1998	2445
## ENSG00000138614	362	384	471	286	342	356
## ENSG00000074621	132	115	168	95	124	137
## ENSG00000174485	384	401	506	480	543	588
## ENSG00000103769	1483	1751	2228	1769	2095	2258
## ENSG00000157890	0	0	1	5	0	2
## ENSG00000166938	100	150	174	109	113	111
## ENSG00000075131	66	79	103	49	43	44
## ENSG00000169032	828	963	1323	868	919	1130

## ENSG00000174446	101	130	152	77	84	103
## ENSG00000174444	14321	16710	20699	14381	16062	18189
## ENSG00000174442	320	439	516	247	314	329
## ENSG00000188501	70	79	102	12	10	7
## ENSG00000137834	126	156	208	164	136	188
## ENSG00000166949	4461	5244	6188	6094	6941	7503
## ENSG00000103591	650	680	918	579	667	743
## ENSG00000103599	10	12	18	23	16	25
## ENSG00000189227	35	44	58	48	61	61
## ENSG00000137764	159	201	224	246	263	317
## ENSG00000188779	2	1	1	3	2	1
## ENSG00000033800	395	428	599	371	438	495
## ENSG00000129007	7	0	6	7	5	5
## ENSG00000260007	0	0	0	0	0	0
## ENSG00000128973	259	343	462	208	264	337
## ENSG00000169018	827	957	1172	1542	1790	2127
## ENSG00000137809	1184	1192	1565	3062	3312	3968
## ENSG00000103647	1186	1377	1856	1701	1672	2276
## ENSG00000140350	816	891	1203	564	666	713
## ENSG00000258484	19	34	27	27	29	39
## ENSG00000255346	0	0	2	0	2	1
## ENSG00000138604	748	923	1119	1021	1156	1585
## ENSG00000137819	104	107	171	471	420	689
## ENSG00000137807	692	906	1177	146	194	242
## ENSG00000137818	7554	8573	10470	7735	8409	9702
## ENSG00000140332	289	309	417	440	469	599
## ENSG00000137831	12663	13669	17347	19150	23059	24081
## ENSG00000166173	1273	1397	1814	1080	1178	1305
## ENSG00000137821	88	136	159	149	186	223
## ENSG00000129028	52	57	65	50	69	84
## ENSG00000187720	1715	2010	2408	864	1113	1072
## ENSG00000225362	7	6	3	1	6	3
## ENSG00000278570	1	1	4	1	0	0
## ENSG00000066933	579	679	837	695	847	823
## ENSG00000166192	30	47	41	33	51	33
## ENSG00000175318	2	0	0	0	0	1
## ENSG00000067225	37142	41985	53780	40673	44051	52303
## ENSG00000137817	120	138	198	202	247	258
## ENSG00000273025	0	0	0	0	0	0
## ENSG00000260729	0	0	0	1	1	1
## ENSG00000140488	0	0	0	0	0	0
## ENSG00000213614	314	360	445	836	855	1042
## ENSG00000187806	0	0	0	0	0	0
## ENSG00000166233	1012	1021	1343	1108	1287	1468
## ENSG00000215186	0	0	0	0	0	0
## ENSG00000175202	0	0	0	0	2	0
## ENSG00000140463	187	244	319	246	302	352
## ENSG00000159322	1014	1107	1333	694	791	973
## ENSG00000067141	1619	1834	2227	3998	3970	5151
## ENSG00000138622	1	0	0	0	1	0
## ENSG00000183324	0	0	0	0	1	0
## ENSG00000156642	3180	3620	4658	3815	4238	4926
## ENSG00000103855	2456	2824	3714	4425	4483	5965
## ENSG00000205363	4	7	12	14	22	16



## ENSG00000167139	0	0	0	0	0	0
## ENSG00000129038	2148	2572	3514	1654	1989	1990
## ENSG00000067221	250	355	385	165	210	233
## ENSG00000140464	813	870	1164	795	872	1015
## ENSG00000159289	0	0	0	0	0	0
## ENSG00000167178	0	0	0	1	0	2
## ENSG00000129009	1	5	11	3	6	7
## ENSG00000137868	0	0	0	2	2	0
## ENSG00000140481	0	0	0	0	0	0
## ENSG00000140459	0	1	3	3	3	3
## ENSG00000138623	3647	4273	5943	853	958	1104
## ENSG00000138629	438	510	624	478	554	672
## ENSG00000179361	77	82	110	97	97	135
## ENSG00000179335	502	564	742	312	368	446
## ENSG00000179151	543	589	766	351	337	377
## ENSG00000140465	0	0	0	4	4	12
## ENSG00000140505	0	0	0	0	0	0
## ENSG00000103653	728	801	1030	1242	1222	1535
## ENSG00000140506	0	0	0	0	0	0
## ENSG00000213578	0	0	0	0	0	0
## ENSG00000140474	172	210	258	344	384	477
## ENSG00000140497	1130	1180	1563	998	1030	1195
## ENSG00000178802	293	303	397	257	291	327
## ENSG00000178761	191	219	246	168	188	220
## ENSG00000178741	791	869	1069	1010	1067	1268
## ENSG00000178718	5	14	14	14	23	33
## ENSG00000198794	38	44	57	28	31	34
## ENSG00000138621	83	84	98	74	84	105
## ENSG00000167173	191	198	259	240	252	294
## ENSG00000140478	0	0	0	0	0	0
## ENSG00000167195	0	0	0	0	0	0
## ENSG00000140365	407	506	615	431	495	594
## ENSG00000140398	17	13	17	31	28	28
## ENSG00000140400	244	265	373	292	305	360
## ENSG00000169375	627	698	829	752	816	932
## ENSG00000169410	807	901	1264	1106	1315	1474
## ENSG00000169371	135	145	185	106	106	107
## ENSG00000177971	222	245	296	316	364	443
## ENSG00000173548	637	669	934	1067	1080	1312
## ENSG00000173546	3323	3714	5255	1292	1357	1539
## ENSG00000182950	4	1	3	1	3	2
## ENSG00000140367	831	1000	1187	1265	1392	1740
## ENSG00000167196	518	559	655	1105	1232	1385
## ENSG00000169752	1	1	0	4	5	2
## ENSG00000169758	3	7	5	1	7	8
## ENSG00000140374	1024	1232	1492	1326	1533	1812
## ENSG00000159556	13	13	16	11	12	17
## ENSG00000140386	131	159	169	128	155	180
## ENSG00000117906	1098	1267	1588	1043	1279	1397
## ENSG00000140368	1	2	2	0	3	0
## ENSG00000140391	2106	2461	3054	2847	3127	3636
## ENSG00000173517	1586	2111	2101	2443	2891	3037
## ENSG00000140382	333	334	483	324	374	420
## ENSG00000169783	1	1	0	0	2	1

## ENSG00000167202	801	894	1099	1177	1316	1499
## ENSG00000183476	0	1	1	0	0	0
## ENSG00000136425	14	24	27	27	31	37
## ENSG00000166411	294	368	455	293	345	425
## ENSG00000103740	0	0	1	1	1	0
## ENSG00000140403	10	9	8	11	5	11
## ENSG00000140395	397	432	504	426	500	550
## ENSG00000166426	0	0	0	0	0	0
## ENSG00000136381	895	1052	1234	1477	1726	2090
## ENSG00000188266	13	22	31	6	9	5
## ENSG00000041357	1476	1662	2140	1385	1548	1840
## ENSG00000169684	8	4	4	3	3	6
## ENSG00000080644	0	0	1	0	0	0
## ENSG00000117971	0	0	0	0	0	0
## ENSG00000136378	355	371	547	1878	1848	2531
## ENSG00000185787	4621	5482	6690	5953	7049	8127
## ENSG00000103811	32	45	50	56	42	77
## ENSG00000058335	2	6	5	5	7	10
## ENSG00000235711	0	0	0	0	0	0
## ENSG00000166557	1900	2138	2731	2173	2432	2789
## ENSG00000169330	49	56	57	45	59	68
## ENSG00000136371	4	4	5	4	2	4
## ENSG00000259332	1	1	0	0	0	0
## ENSG00000180953	22	12	23	22	23	23
## ENSG00000140379	3	11	2	14	10	21
## ENSG00000086666	661	730	901	1032	1216	1440
## ENSG00000103876	535	587	671	426	466	560
## ENSG00000172379	521	658	819	338	447	441
## ENSG00000136379	195	204	267	383	399	527
## ENSG00000103888	2429	2373	2991	2874	3037	3425
## ENSG00000117899	812	918	1214	936	1113	1217
## ENSG00000140406	375	353	470	710	727	923
## ENSG00000156206	0	0	1	0	0	1
## ENSG00000172349	27	10	36	11	22	12
## ENSG00000172345	26	23	37	13	18	18
## ENSG00000188869	3	2	2	1	1	0
## ENSG00000183496	240	259	275	317	302	314
## ENSG00000140598	357	453	525	455	500	612
## ENSG00000188659	1	6	8	2	7	5
## ENSG00000278662	5	7	10	6	15	19
## ENSG00000197978	28	26	44	25	44	32
## ENSG00000182774	3696	4204	4933	3491	3849	4235
## ENSG00000260836	1	0	0	0	0	0
## ENSG00000214575	62	65	101	69	71	115
## ENSG00000103723	0	5	0	3	5	9
## ENSG00000186628	1	2	0	0	0	1
## ENSG00000156232	167	168	221	175	214	233
## ENSG00000103942	19	12	27	8	13	8
## ENSG00000169612	98	83	128	132	147	172
## ENSG00000169609	126	141	154	155	176	192
## ENSG00000064726	1413	1659	2098	1881	2132	2500
## ENSG00000136404	31	27	40	9	15	18
## ENSG00000166503	789	1018	1242	1040	1247	1474
## ENSG00000169594	23	32	41	17	25	24

## ENSG00000140600	0	1	1	2	0	0
## ENSG00000156218	0	0	0	0	3	1
## ENSG00000259511	3	1	5	3	0	4
## ENSG00000184206	7	2	3	6	6	12
## ENSG00000176371	48	68	77	146	133	210
## ENSG00000177082	45	73	73	87	90	108
## ENSG00000197696	25	42	64	62	63	78
## ENSG00000140612	1481	1790	2174	1543	1663	1916
## ENSG00000166716	531	618	741	661	671	836
## ENSG00000136383	3	4	5	5	8	6
## ENSG00000156222	0	0	0	0	0	0
## ENSG00000073417	605	722	859	1028	1084	1249
## ENSG00000170776	814	961	988	977	1183	1266
## ENSG00000183655	110	141	155	106	105	147
## ENSG00000166748	0	0	0	0	0	0
## ENSG00000140538	0	0	1	0	0	1
## ENSG00000259494	65	66	106	51	44	57
## ENSG00000181991	253	289	392	341	317	371
## ENSG00000140543	98	92	113	85	88	114
## ENSG00000181026	1182	1472	1762	1903	2101	2570
## ENSG00000172183	11	6	16	16	25	31
## ENSG00000157766	35	39	51	21	21	25
## ENSG00000140511	199	219	320	322	368	446
## ENSG00000140545	11946	13014	17047	17342	19288	21163
## ENSG00000140526	2149	2609	3075	2502	2896	3206
## ENSG00000140522	0	0	0	0	0	0
## ENSG00000140525	396	548	644	173	190	203
## ENSG00000140521	702	683	992	1030	946	1305
## ENSG00000140519	0	0	0	0	0	2
## ENSG00000140534	92	120	131	27	35	41
## ENSG00000166813	307	345	425	233	283	314
## ENSG00000166819	0	0	0	0	1	1
## ENSG00000166821	43	45	67	15	24	23
## ENSG00000140527	0	1	2	0	1	3
## ENSG00000166823	0	1	5	2	1	4
## ENSG00000188095	1	0	4	1	0	0
## ENSG00000166825	1434	1515	2082	1691	1721	2151
## ENSG00000157823	157	232	257	304	346	411
## ENSG00000250021	0	0	1	0	0	0
## ENSG00000242498	220	258	340	147	178	191
## ENSG00000140548	296	265	381	125	160	188
## ENSG00000182054	823	915	1344	755	920	923
## ENSG00000185033	392	397	534	653	633	905
## ENSG00000185043	653	788	975	1016	1016	1141
## ENSG00000183208	9	23	22	13	22	30
## ENSG00000261147	0	0	1	0	0	1
## ENSG00000182768	562	637	777	562	617	747
## ENSG00000275674	0	1	0	0	0	2
## ENSG00000196391	26	18	26	16	29	20
## ENSG00000140575	7354	8354	10626	5736	6517	7279
## ENSG00000140577	469	521	662	404	460	578
## ENSG00000197299	73	91	118	35	26	40
## ENSG00000140564	2571	2909	3860	5552	5683	6963
## ENSG00000182511	65	71	78	36	38	36

## ENSG00000196547	632	675	925	881	897	1104
## ENSG00000184508	33	40	55	17	12	27
## ENSG00000140553	1357	1549	2081	1116	1252	1478
## ENSG00000166965	99	106	151	69	75	69
## ENSG00000198901	1039	1219	1604	127	163	189
## ENSG00000184056	181	199	288	172	199	247
## ENSG00000185518	0	0	0	0	0	0
## ENSG00000176463	182	203	258	168	167	198
## ENSG00000140557	0	0	0	0	1	0
## ENSG00000185442	6	6	3	5	5	8
## ENSG00000279765	0	1	1	0	1	2
## ENSG00000173575	1123	1241	1473	1237	1535	1605
## ENSG00000182175	2	3	4	0	2	5
## ENSG00000140563	119	111	128	406	386	506
## ENSG00000185551	3103	3580	4765	2201	2733	2978
## ENSG00000185594	0	0	0	0	0	0
## ENSG00000140450	575	600	762	410	450	482
## ENSG00000185087	0	0	0	0	0	0
## ENSG00000140443	1042	1173	1321	891	1081	1114
## ENSG00000183571	0	0	0	0	0	1
## ENSG00000182253	98	109	135	364	396	499
## ENSG00000103852	221	240	322	333	366	424
## ENSG00000168904	109	137	146	115	105	147
## ENSG00000281635	0	0	0	0	0	0
## ENSG00000068305	578	664	851	287	303	372
## ENSG00000183060	74	84	103	51	59	71
## ENSG00000140470	1	1	0	1	5	5
## ENSG00000154227	0	0	0	0	0	0
## ENSG00000140471	80	101	128	79	87	105
## ENSG00000183475	165	209	237	210	303	305
## ENSG00000279588	0	0	0	0	0	0
## ENSG00000184254	72	63	92	135	157	154
## ENSG00000154237	247	294	336	282	336	386
## ENSG00000131873	1230	1563	1902	1466	1636	1886
## ENSG00000131871	818	962	1119	1103	1177	1484
## ENSG00000131876	445	587	707	451	572	602
## ENSG00000140479	3	0	0	5	2	5
## ENSG00000184277	267	287	385	389	415	549
## ENSG00000185418	210	269	262	337	384	432
## ENSG00000184140	0	0	0	0	0	0
## ENSG00000182854	0	0	0	0	0	0
## ENSG00000177693	0	0	0	0	0	0
## ENSG00000161980	136	147	197	185	176	244
## ENSG00000161981	392	412	517	282	343	432
## ENSG00000007384	885	913	1240	1767	1697	2399
## ENSG00000103152	478	536	633	712	754	874
## ENSG00000103148	617	685	936	514	619	748
## ENSG00000130656	0	0	0	0	0	0
## ENSG00000206177	0	0	0	0	0	0
## ENSG00000188536	0	0	0	0	0	0
## ENSG00000206172	0	0	0	0	0	0
## ENSG00000086506	1	1	5	3	1	1
## ENSG00000007392	327	378	475	417	519	684
## ENSG00000167930	654	618	876	979	1050	1293

## ENSG00000269881	0	1	0	0	1	2
## ENSG00000076344	8	9	15	3	0	5
## ENSG00000242173	1	3	4	2	2	4
## ENSG00000185615	0	0	1	1	0	0
## ENSG00000103126	332	336	485	522	544	618
## ENSG00000086504	828	922	1124	857	918	1142
## ENSG00000129925	1571	1787	2356	2561	2679	3392
## ENSG00000103202	2147	2573	3007	1699	1784	1962
## ENSG00000242612	72	101	136	145	153	195
## ENSG00000090565	707	776	1059	1456	1547	1892
## ENSG00000103326	702	834	1113	1054	1083	1388
## ENSG00000161992	0	0	0	0	0	0
## ENSG00000007541	349	379	467	531	551	659
## ENSG00000257108	13	13	13	31	36	37
## ENSG00000197562	191	258	364	343	366	508
## ENSG00000127578	3	1	6	13	6	13
## ENSG00000130731	450	504	602	533	525	654
## ENSG00000172366	123	138	180	132	139	180
## ENSG00000102854	1	0	0	0	0	2
## ENSG00000161996	83	127	154	156	148	208
## ENSG00000140983	764	951	1177	991	1096	1345
## ENSG00000103269	10	27	20	19	20	24
## ENSG00000103266	707	784	993	950	1050	1174
## ENSG00000161999	196	217	304	241	229	319
## ENSG00000127580	130	117	179	194	197	233
## ENSG00000127585	49	61	86	94	113	113
## ENSG00000103260	291	326	395	478	429	564
## ENSG00000103254	141	153	246	175	161	192
## ENSG00000162004	10	9	16	21	19	26
## ENSG00000103253	69	78	117	114	136	151
## ENSG00000103245	193	227	308	271	281	377
## ENSG00000162006	0	0	0	0	0	0
## ENSG00000007376	333	381	506	597	597	764
## ENSG00000127586	113	148	182	51	41	65
## ENSG00000127588	1	0	0	0	0	0
## ENSG00000167945	0	0	0	1	0	0
## ENSG00000103227	177	199	242	278	304	428
## ENSG00000005513	4	2	10	18	8	17
## ENSG00000162009	0	0	0	0	0	0
## ENSG00000184471	0	0	0	0	0	0
## ENSG00000196557	303	300	375	784	834	976
## ENSG00000116176	1	0	1	1	4	0
## ENSG00000197253	0	0	0	0	1	1
## ENSG00000172236	0	0	0	0	0	0
## ENSG00000095917	0	0	0	0	0	0
## ENSG00000103275	948	1164	1364	1352	1500	1844
## ENSG00000007516	6	6	6	22	14	25
## ENSG00000007520	531	618	803	674	620	805
## ENSG00000090581	418	419	528	659	710	855
## ENSG00000059145	219	248	331	499	502	635
## ENSG00000174109	79	108	141	128	124	169
## ENSG00000197599	0	4	2	2	3	4
## ENSG00000103249	621	721	963	1809	1868	2303
## ENSG00000251692	0	2	0	0	0	1

## ENSG00000100726	420	471	637	394	474	560
## ENSG00000187535	210	189	243	358	379	419
## ENSG00000131634	106	111	147	327	344	410
## ENSG00000007545	147	158	200	210	210	257
## ENSG00000261732	1	1	1	0	0	1
## ENSG00000206053	1279	1444	1828	526	585	630
## ENSG00000138834	610	673	817	786	915	1140
## ENSG00000103024	188	219	292	293	272	356
## ENSG00000074071	737	781	912	707	726	981
## ENSG00000197774	103	126	195	188	184	222
## ENSG00000162032	2	5	2	9	1	4
## ENSG00000095906	430	471	658	602	636	761
## ENSG00000099769	1	0	2	0	1	1
## ENSG00000063854	318	350	458	380	386	410
## ENSG00000180185	424	531	597	490	614	700
## ENSG00000162039	2	1	3	2	1	1
## ENSG00000162040	0	0	0	0	0	0
## ENSG00000198736	213	272	290	291	310	361
## ENSG00000140986	1	0	3	1	2	2
## ENSG00000140990	602	739	910	982	972	1154
## ENSG00000140988	13100	15059	18486	12043	13572	15395
## ENSG00000179580	1	0	0	0	0	1
## ENSG00000183751	526	635	793	477	494	620
## ENSG00000196408	0	0	3	3	2	2
## ENSG00000127554	191	217	279	281	261	343
## ENSG00000127561	40	28	54	33	29	42
## ENSG00000167962	488	578	760	489	526	634
## ENSG00000183971	11	11	26	20	16	19
## ENSG00000065054	714	846	1058	1034	1118	1262
## ENSG00000065057	88	80	131	63	89	118
## ENSG00000103197	1187	1425	1810	1624	1830	2067
## ENSG00000008710	2275	2520	3226	3948	4232	5136
## ENSG00000167964	15	19	23	10	17	15
## ENSG00000131653	1253	1442	1827	1523	1626	1987
## ENSG00000167971	3	1	1	7	6	4
## ENSG00000167965	386	416	583	321	374	470
## ENSG00000182685	14	8	12	15	14	22
## ENSG00000184207	234	318	399	274	258	357
## ENSG00000167967	258	251	348	269	277	388
## ENSG00000167968	4	5	5	10	6	8
## ENSG00000167969	202	228	279	207	261	254
## ENSG00000205937	963	1111	1433	1332	1503	1805
## ENSG00000279473	0	0	0	0	0	0
## ENSG00000167972	32	51	70	34	22	38
## ENSG00000162063	321	383	513	165	144	192
## ENSG00000162062	52	55	88	48	41	54
## ENSG00000162068	9	7	7	0	1	3
## ENSG00000162065	299	376	445	386	405	490
## ENSG00000260272	0	0	0	0	0	0
## ENSG00000185883	43	53	67	91	74	115
## ENSG00000259784	0	0	0	0	0	0
## ENSG00000162066	83	100	118	184	191	219
## ENSG00000205923	0	0	0	0	0	0
## ENSG00000140992	609	707	896	614	689	779

## ENSG00000167977	583	811	899	978	1098	1294
## ENSG00000172382	4	3	3	2	4	7
## ENSG00000167978	5851	7266	8530	7349	8192	9457
## ENSG00000103363	1397	1606	1966	1689	1845	2147
## ENSG00000103355	0	0	0	1	0	0
## ENSG00000007038	0	1	1	0	2	0
## ENSG00000162078	5	9	4	7	6	4
## ENSG00000005001	2	1	2	20	20	26
## ENSG00000162076	220	301	369	324	398	451
## ENSG00000059122	688	795	1066	1196	1209	1533
## ENSG00000131650	1	1	3	3	3	5
## ENSG00000127564	107	152	223	20	30	32
## ENSG00000162073	48	65	77	41	51	58
## ENSG00000270168	0	0	0	0	0	0
## ENSG00000213937	0	1	0	0	0	0
## ENSG00000184697	3	1	1	4	6	6
## ENSG00000006327	2516	2887	3501	3572	3632	4813
## ENSG00000103145	207	243	342	266	295	250
## ENSG00000131652	84	87	137	107	120	138
## ENSG00000162069	0	0	1	1	0	0
## ENSG00000008516	2	1	2	5	4	4
## ENSG00000008517	208	194	288	65	81	70
## ENSG00000130182	0	0	1	0	0	0
## ENSG00000122386	89	126	153	132	163	166
## ENSG00000085644	202	248	340	338	357	478
## ENSG00000228146	1	2	4	3	2	2
## ENSG00000168124	3	2	0	2	2	2
## ENSG00000010539	103	83	120	135	118	161
## ENSG00000103313	0	1	0	0	0	0
## ENSG00000006194	325	387	471	560	656	806
## ENSG00000140993	10	16	13	36	37	36
## ENSG00000162086	132	178	191	203	231	247
## ENSG00000168158	0	0	0	0	0	0
## ENSG00000262621	1	0	1	2	0	1
## ENSG00000232196	1	2	3	6	2	3
## ENSG00000140987	10	11	11	8	15	13
## ENSG00000103343	90	106	161	146	131	166
## ENSG00000167981	60	72	82	113	104	126
## ENSG00000122390	480	527	701	736	790	965
## ENSG00000215131	0	0	0	0	0	0
## ENSG00000103351	122	153	178	181	215	207
## ENSG00000167984	3	5	4	12	13	19
## ENSG00000188827	221	248	308	278	352	329
## ENSG00000213918	135	145	181	165	182	200
## ENSG00000126602	564	626	800	465	465	609
## ENSG00000005339	1333	1473	1843	1276	1466	1557
## ENSG00000162104	930	1044	1340	787	917	1038
## ENSG00000185739	1	0	3	0	0	0
## ENSG00000090447	53	72	82	62	69	108
## ENSG00000126603	243	264	341	405	463	514
## ENSG00000217930	8	15	14	16	20	16
## ENSG00000103426	0	0	0	0	0	0
## ENSG00000262246	28	23	46	22	25	37
## ENSG00000168140	2382	2397	3378	6509	6393	8493

## ENSG00000103423	636	696	844	598	545	683
## ENSG00000153406	227	210	262	225	241	290
## ENSG00000103415	688	737	951	585	616	719
## ENSG00000089486	362	421	496	482	559	600
## ENSG00000205832	1	0	0	1	0	0
## ENSG00000153443	286	305	389	419	466	635
## ENSG00000102858	1203	1465	1849	2182	2285	2679
## ENSG00000168101	349	411	498	378	394	456
## ENSG00000168096	189	216	240	264	307	302
## ENSG00000166246	8	16	22	19	21	20
## ENSG00000103199	125	116	143	214	195	278
## ENSG00000140623	0	0	0	0	0	0
## ENSG00000267795	0	0	0	0	0	0
## ENSG00000067836	142	171	227	118	123	147
## ENSG00000140632	1574	1822	2357	1820	1918	2180
## ENSG00000118900	1008	1242	1488	1665	1747	2102
## ENSG00000118898	25	26	23	19	17	18
## ENSG00000103184	0	1	0	0	1	0
## ENSG00000103174	173	217	272	281	279	319
## ENSG00000033011	320	432	492	423	514	555
## ENSG00000153446	3	7	4	8	8	3
## ENSG00000118894	112	100	150	86	107	115
## ENSG00000078328	0	0	0	0	0	0
## ENSG00000232258	0	0	0	0	0	0
## ENSG00000067365	320	328	454	434	440	524
## ENSG00000183044	194	198	277	165	230	210
## ENSG00000184857	57	83	89	57	66	94
## ENSG00000140650	234	304	379	227	320	352
## ENSG00000153048	416	439	550	437	468	614
## ENSG00000187555	1542	1758	2253	1516	1803	2039
## ENSG00000182831	1324	1534	1755	1308	1369	1650
## ENSG00000183454	0	1	1	11	5	6
## ENSG00000166669	10	13	15	21	22	31
## ENSG00000213853	301	408	438	261	269	344
## ENSG00000153060	1	1	0	1	0	2
## ENSG00000103274	71	101	106	108	142	130
## ENSG00000166676	3	5	1	1	3	4
## ENSG00000179583	11	5	4	14	14	15
## ENSG00000182108	9	8	13	17	11	30
## ENSG00000038532	604	679	839	680	776	910
## ENSG00000175643	61	58	77	25	39	45
## ENSG00000185338	92	55	85	35	34	41
## ENSG00000178279	0	0	0	0	0	0
## ENSG00000178257	0	0	0	0	0	0
## ENSG00000122304	0	0	0	0	0	0
## ENSG00000175646	0	0	0	0	0	0
## ENSG00000280717	0	0	0	0	0	0
## ENSG00000188897	4	5	4	1	8	20
## ENSG00000189067	1701	1878	2311	1783	2020	2198
## ENSG00000184602	392	410	550	250	274	296
## ENSG00000153066	582	621	851	423	472	481
## ENSG00000122299	942	1070	1317	1058	1276	1424
## ENSG00000171490	1570	1820	2290	1554	1586	1966
## ENSG00000103342	3093	3604	4612	3009	3350	3957



## ENSG00000234719	15	10	13	23	20	26
## ENSG00000048462	1	2	0	0	0	2
## ENSG00000048471	660	710	918	1178	1255	1517
## ENSG00000103381	303	355	450	314	332	362
## ENSG00000237515	0	0	0	0	0	0
## ENSG00000175595	167	212	248	213	243	287
## ENSG00000186260	292	305	399	364	470	478
## ENSG00000140694	471	477	630	339	408	453
## ENSG00000103429	1059	1227	1494	1304	1417	1762
## ENSG00000069764	0	1	2	4	2	6
## ENSG00000224712	0	1	0	0	0	0
## ENSG00000254852	0	0	0	0	0	0
## ENSG00000183426	34	21	46	40	40	50
## ENSG00000103512	1546	1720	2202	2224	2583	2960
## ENSG00000179889	1828	2053	2673	2466	2596	3137
## ENSG00000157045	462	449	584	522	513	696
## ENSG00000085721	692	825	1031	743	878	1069
## ENSG00000183793	2	2	2	1	2	1
## ENSG00000261130	0	0	0	0	0	0
## ENSG00000156968	2	4	4	3	2	1
## ENSG00000166780	377	400	555	825	887	1115
## ENSG00000166783	735	762	984	800	804	989
## ENSG00000072864	271	323	422	109	163	163
## ENSG00000133392	25	24	29	8	7	3
## ENSG00000133393	512	603	695	565	680	789
## ENSG00000103222	3351	3755	4997	5002	5950	6842
## ENSG00000091262	31	29	34	32	38	30
## ENSG00000103226	344	378	428	407	459	583
## ENSG00000183889	4	7	3	3	3	4
## ENSG00000214967	0	0	0	2	0	0
## ENSG00000103489	1615	2212	2544	572	752	688
## ENSG00000214940	0	0	0	0	0	0
## ENSG00000233024	0	0	1	0	1	0
## ENSG00000185164	879	963	1183	1072	1148	1323
## ENSG00000134419	1196	1234	1552	1206	1394	1524
## ENSG00000260342	0	0	1	1	0	1
## ENSG00000170540	1295	1488	1880	1892	2136	2587
## ENSG00000157106	1403	1533	1632	2112	2221	2572
## ENSG00000170537	21	12	21	4	8	10
## ENSG00000167186	124	139	169	120	151	190
## ENSG00000205730	1105	1529	1523	2213	2315	2939
## ENSG00000261427	0	0	0	0	1	2
## ENSG00000103528	0	0	0	2	3	3
## ENSG00000261210	0	0	0	0	0	0
## ENSG00000103534	0	0	0	3	4	2
## ENSG00000006007	1104	1294	1528	2090	2216	2627
## ENSG00000103540	276	274	380	302	319	395
## ENSG00000103544	817	918	1166	612	727	906
## ENSG00000103550	189	202	277	233	218	288
## ENSG00000174628	35	33	46	17	16	24
## ENSG00000167191	195	209	255	141	186	186
## ENSG00000180269	0	0	0	0	0	0
## ENSG00000169347	0	0	0	0	0	0
## ENSG00000169344	0	0	0	0	0	0

## ENSG00000169340	0	0	0	0	0	0
## ENSG00000183549	0	0	0	0	0	0
## ENSG00000183747	0	0	0	0	0	0
## ENSG00000066813	0	0	0	0	0	0
## ENSG00000005187	3	2	2	0	2	1
## ENSG00000166743	0	0	0	0	0	0
## ENSG00000066654	526	595	777	395	446	524
## ENSG00000196678	147	151	178	92	116	118
## ENSG00000005189	33	29	53	16	19	20
## ENSG00000188215	309	328	419	462	502	603
## ENSG00000102897	169	208	228	125	158	181
## ENSG00000158486	4	2	0	0	1	1
## ENSG00000011638	515	594	784	545	629	687
## ENSG00000103310	0	0	0	0	0	0
## ENSG00000175311	0	0	0	0	0	0
## ENSG00000103316	4	3	1	2	3	0
## ENSG00000169246	13	11	24	15	22	28
## ENSG00000197006	1165	1441	1722	1829	1950	2305
## ENSG00000140749	2	0	1	1	2	4
## ENSG00000155719	0	0	0	1	0	1
## ENSG00000185864	16	20	23	26	38	33
## ENSG00000140740	1599	1785	2264	1355	1589	1734
## ENSG00000155714	0	0	0	0	0	0
## ENSG00000185716	255	310	369	758	748	962
## ENSG00000175267	0	0	0	0	0	0
## ENSG00000183921	0	0	1	0	2	0
## ENSG00000103319	534	558	646	301	338	340
## ENSG00000058600	352	391	564	400	390	483
## ENSG00000140743	717	807	1028	658	756	783
## ENSG00000243716	28	25	31	21	28	39
## ENSG00000122254	0	1	0	3	0	0
## ENSG00000103404	152	152	188	97	101	130
## ENSG00000166828	0	0	0	0	0	0
## ENSG00000168447	0	0	0	0	0	0
## ENSG00000168434	246	264	328	252	305	332
## ENSG00000103365	433	524	661	280	304	359
## ENSG00000103356	440	498	568	341	388	432
## ENSG00000103353	2197	2421	3123	3097	3484	3917
## ENSG00000004779	517	583	731	638	659	799
## ENSG00000083093	129	147	187	182	206	258
## ENSG00000166847	1762	2040	2503	2342	2651	2765
## ENSG00000166851	644	843	1170	79	102	113
## ENSG00000134398	0	0	0	0	0	1
## ENSG00000166869	0	0	0	0	0	0
## ENSG00000166501	0	0	1	0	2	0
## ENSG00000006116	0	0	0	0	0	0
## ENSG00000122257	747	858	1111	1079	1253	1363
## ENSG00000090905	1647	1797	2209	1435	1554	1790
## ENSG00000158865	0	1	3	0	2	0
## ENSG00000140750	1131	1303	1762	937	1075	1264
## ENSG00000205629	343	384	478	390	445	476
## ENSG00000103375	1	0	0	0	0	2
## ENSG00000155592	141	168	193	259	273	302
## ENSG00000182601	0	0	0	0	0	0

## ENSG00000155666	36	47	63	57	59	64
## ENSG00000169189	308	378	456	370	403	501
## ENSG00000077238	515	660	683	2222	2229	3114
## ENSG00000103522	14	17	24	121	93	159
## ENSG00000077235	2202	2560	3392	2828	3051	3726
## ENSG00000047578	363	350	539	376	359	463
## ENSG00000169181	0	0	0	0	0	0
## ENSG00000169180	2651	3025	3904	2005	2378	2469
## ENSG00000188322	2	4	2	11	6	8
## ENSG00000198156	0	1	1	2	1	5
## ENSG00000205609	23	34	37	10	25	32
## ENSG00000233232	0	0	0	0	1	0
## ENSG00000261832	0	0	0	0	0	0
## ENSG00000188603	13	20	18	41	36	41
## ENSG00000184730	0	0	0	1	1	5
## ENSG00000197272	0	0	0	0	0	0
## ENSG00000176046	652	716	760	623	745	686
## ENSG00000176476	41	53	52	46	39	66
## ENSG00000197165	0	0	0	0	0	0
## ENSG00000196502	5	9	10	4	4	4
## ENSG00000255524	0	0	0	0	2	2
## ENSG00000184110	191	236	266	183	222	210
## ENSG00000196993	0	1	0	0	0	2
## ENSG00000168488	1446	1733	2313	1711	1837	2365
## ENSG00000178952	1751	2051	2637	2369	2408	2953
## ENSG00000178188	445	500	673	569	626	679
## ENSG00000196296	1	7	4	12	9	10
## ENSG00000177548	406	462	581	472	444	577
## ENSG00000177455	0	0	0	0	0	0
## ENSG00000176953	410	492	613	623	645	719
## ENSG00000169682	2	11	2	9	6	8
## ENSG00000213658	1	0	1	1	0	1
## ENSG00000254206	6	8	7	20	22	23
## ENSG00000261740	14	15	9	21	15	15
## ENSG00000183336	0	0	0	0	0	0
## ENSG00000181625	2	1	2	1	1	2
## ENSG00000213648	0	0	0	0	0	0
## ENSG00000258150	0	0	0	0	0	0
## ENSG00000169203	2	1	5	0	5	1
## ENSG00000197471	0	0	0	0	0	0
## ENSG00000277669	0	0	0	0	0	0
## ENSG00000103485	219	248	299	212	235	292
## ENSG00000185905	0	0	0	0	0	0
## ENSG00000174992	0	0	0	0	0	0
## ENSG00000079616	329	413	555	108	119	143
## ENSG00000103495	387	435	606	527	571	676
## ENSG00000167371	37	32	50	24	28	29
## ENSG00000280893	0	0	0	0	0	0
## ENSG00000280789	31	32	44	36	49	49
## ENSG00000281348	1	0	0	1	0	1
## ENSG00000013364	4410	5080	6476	3791	4159	4902
## ENSG00000103502	1022	1149	1473	1834	1894	2351
## ENSG00000174938	468	507	639	687	757	839
## ENSG00000174939	187	179	219	152	172	199

## ENSG00000174943	181	190	246	509	487	673
## ENSG00000149932	618	690	825	729	831	939
## ENSG00000149930	1586	1742	2183	2343	2413	2972
## ENSG00000149929	91	127	146	53	57	66
## ENSG00000169592	303	292	425	348	392	496
## ENSG00000149927	0	0	1	0	1	0
## ENSG00000167194	0	0	0	0	0	0
## ENSG00000149926	1	2	2	3	3	1
## ENSG00000149925	14895	16602	21989	15155	16908	19529
## ENSG00000149923	1532	1646	2172	2159	2236	2733
## ENSG00000149922	1	0	0	0	2	0
## ENSG00000090238	133	127	162	189	217	260
## ENSG00000102886	3	5	7	3	3	7
## ENSG00000102882	807	979	1295	849	974	1095
## ENSG00000102879	54	67	102	21	35	43
## ENSG00000169627	6	4	8	4	3	3
## ENSG00000132207	0	0	0	0	0	0
## ENSG00000213599	0	0	0	0	0	0
## ENSG00000261052	0	0	0	0	1	2
## ENSG00000258130	4	3	2	4	2	4
## ENSG00000198064	1	0	1	1	0	4
## ENSG00000169217	950	1067	1281	1189	1288	1498
## ENSG00000169221	982	1255	1538	1242	1412	1713
## ENSG00000180209	1	2	1	0	1	3
## ENSG00000180035	114	147	183	206	244	296
## ENSG00000180096	11	13	21	22	19	21
## ENSG00000179965	126	146	190	160	191	211
## ENSG00000179958	216	263	353	167	206	244
## ENSG00000179918	573	678	869	945	1002	1252
## ENSG00000005844	1	0	2	1	0	0
## ENSG00000169957	260	274	425	362	410	446
## ENSG00000261459	0	0	0	0	0	0
## ENSG00000169955	41	42	43	44	42	48
## ENSG00000260869	0	0	0	0	0	0
## ENSG00000169951	77	68	114	120	147	160
## ENSG00000229809	49	45	55	72	78	114
## ENSG00000197162	66	72	78	124	134	161
## ENSG00000156853	144	136	162	84	113	134
## ENSG00000156858	314	317	412	317	346	409
## ENSG00000156860	1064	1293	1685	1405	1473	1813
## ENSG00000080603	83	114	109	135	142	187
## ENSG00000282034	3	4	3	3	4	6
## ENSG00000281991	0	0	0	0	0	0
## ENSG00000156873	211	204	270	233	255	271
## ENSG00000196118	9	14	14	15	11	21
## ENSG00000103549	1071	1181	1505	678	728	841
## ENSG00000102870	680	715	860	903	948	1197
## ENSG00000099385	437	576	617	423	491	625
## ENSG00000150281	69	95	109	56	85	68
## ENSG00000099364	553	582	793	1350	1365	1776
## ENSG00000175938	68	67	91	215	180	276
## ENSG00000099381	369	409	503	490	536	642
## ENSG00000099377	30	43	45	46	53	42
## ENSG00000099365	100	113	156	46	79	76

## ENSG00000103496	483	618	838	740	820	984
## ENSG00000167394	125	156	170	145	132	183
## ENSG00000167395	365	374	513	641	615	772
## ENSG00000151006	10	8	7	5	7	6
## ENSG00000255439	0	0	0	0	0	0
## ENSG00000167397	284	300	435	371	397	460
## ENSG00000103507	731	741	1028	936	995	1240
## ENSG00000103510	166	207	263	196	219	247
## ENSG00000052344	0	0	0	0	0	1
## ENSG00000178226	2	5	6	4	2	8
## ENSG00000089280	3116	3658	4500	2028	2359	2556
## ENSG00000103490	45	39	63	67	70	113
## ENSG00000177238	0	0	0	0	0	0
## ENSG00000169900	0	0	0	0	0	0
## ENSG00000169896	0	0	1	0	2	0
## ENSG00000140678	4	3	2	7	4	6
## ENSG00000156886	0	0	0	0	0	0
## ENSG00000156885	0	0	0	0	0	0
## ENSG00000176723	12	8	6	13	9	17
## ENSG00000140691	156	184	211	290	331	402
## ENSG00000140682	1659	1953	2463	1356	1640	1857
## ENSG00000140675	2	4	0	2	4	5
## ENSG00000140688	479	535	650	532	553	682
## ENSG00000169877	0	0	0	0	0	0
## ENSG00000197302	134	161	156	317	301	431
## ENSG00000185947	123	144	146	308	327	439
## ENSG00000205456	1	0	0	0	0	2
## ENSG00000183632	0	0	0	0	0	0
## ENSG00000205457	0	0	0	0	0	0
## ENSG00000275034	0	0	0	0	0	0
## ENSG00000261509	0	0	0	0	0	0
## ENSG00000278848	0	0	0	0	0	0
## ENSG00000259680	0	0	0	0	0	0
## ENSG00000171241	554	661	900	64	100	99
## ENSG00000069329	1833	2166	2646	2713	3061	3481
## ENSG00000091651	159	194	216	58	91	89
## ENSG00000140795	0	3	4	4	2	6
## ENSG00000155330	325	440	468	703	751	957
## ENSG00000166123	765	750	974	422	493	527
## ENSG00000069345	1023	1232	1458	1338	1500	1886
## ENSG00000171208	908	1050	1444	994	1276	1234
## ENSG00000129636	945	1118	1380	1739	2018	2216
## ENSG00000102893	899	1034	1293	780	906	1006
## ENSG00000140798	0	0	1	0	0	0
## ENSG00000121270	0	1	2	5	1	0
## ENSG00000102910	1369	1631	1987	1608	1857	2056
## ENSG00000196470	73	88	97	100	116	127
## ENSG00000102921	559	677	821	595	730	857
## ENSG00000102924	0	1	0	0	0	0
## ENSG00000166152	0	0	0	0	0	0
## ENSG00000102935	3	5	3	12	13	25
## ENSG00000205423	265	294	394	347	358	454
## ENSG00000155393	325	407	503	220	238	290
## ENSG00000121274	284	321	431	340	341	453

## ENSG00000121281	210	185	263	106	102	148
## ENSG00000166164	576	665	828	735	774	960
## ENSG00000140807	0	0	0	7	7	10
## ENSG00000167208	0	0	0	0	0	0
## ENSG00000167207	0	0	0	0	0	0
## ENSG00000083799	866	999	1181	871	1055	1240
## ENSG00000103449	274	315	398	1664	1652	2377
## ENSG00000103460	0	0	0	0	0	0
## ENSG00000177200	998	1171	1418	1391	1725	1878
## ENSG00000279018	0	0	0	0	0	0
## ENSG00000103479	434	532	645	662	751	839
## ENSG00000166971	200	207	264	151	166	206
## ENSG00000103494	336	357	456	307	362	381
## ENSG00000140718	802	912	1109	540	664	704
## ENSG00000177508	0	0	0	0	0	0
## ENSG00000176842	1	0	0	0	1	3
## ENSG00000159387	0	0	0	0	0	0
## ENSG00000087245	8799	9529	12416	15587	16716	20819
## ENSG00000087253	455	489	633	361	422	468
## ENSG00000256812	0	1	0	0	1	0
## ENSG00000103546	0	0	0	0	0	0
## ENSG00000198848	5	1	2	2	4	0
## ENSG00000159398	0	0	0	0	0	0
## ENSG00000087258	2	3	4	2	0	4
## ENSG00000159461	1497	1678	2268	2000	2247	2644
## ENSG00000167005	1170	1422	1670	1212	1402	1638
## ENSG00000087263	904	1057	1341	958	1009	1205
## ENSG00000125124	193	261	332	495	548	629
## ENSG00000102891	0	0	0	0	0	0
## ENSG00000087250	1	1	1	0	0	0
## ENSG00000125148	10418	12657	15298	17134	17151	22166
## ENSG00000169715	1128	1301	1572	1939	1967	2601
## ENSG00000205364	1	1	1	0	1	0
## ENSG00000205362	2	0	0	2	1	1
## ENSG00000169688	0	0	0	0	0	0
## ENSG00000198417	5	2	2	15	10	21
## ENSG00000125144	1	1	2	5	3	4
## ENSG00000205358	0	0	0	0	0	0
## ENSG00000275691	0	0	0	0	0	0
## ENSG00000187193	45	47	59	267	248	366
## ENSG00000102900	729	807	1126	682	734	825
## ENSG00000070915	0	0	0	0	0	0
## ENSG00000051108	1118	1271	1648	1482	1594	1916
## ENSG00000087237	0	0	1	0	0	1
## ENSG00000140853	205	276	293	278	278	328
## ENSG00000140848	322	349	494	267	327	375
## ENSG00000172775	650	682	904	744	903	961
## ENSG00000159579	695	818	974	966	1057	1194
## ENSG00000102931	62	60	78	30	28	44
## ENSG00000102934	28	19	21	12	11	17
## ENSG00000102962	0	0	0	0	0	0
## ENSG00000006210	11	13	15	4	3	3
## ENSG00000102970	0	0	1	0	0	0
## ENSG00000005194	561	642	827	711	832	953

## ENSG00000088682	332	362	438	283	310	410
## ENSG00000102978	1004	1161	1527	1167	1363	1608
## ENSG00000125170	335	348	477	361	403	465
## ENSG00000135736	172	167	219	108	140	134
## ENSG00000159618	0	0	0	0	0	0
## ENSG00000205336	197	222	306	85	88	115
## ENSG00000182885	0	0	0	0	0	0
## ENSG00000159625	0	0	0	0	0	0
## ENSG00000140854	282	302	458	426	417	520
## ENSG00000140859	946	1088	1332	1111	1296	1569
## ENSG00000070729	0	0	0	0	1	0
## ENSG00000159648	0	0	0	0	0	0
## ENSG00000166188	183	195	273	237	256	338
## ENSG00000103005	910	955	1316	1324	1420	1819
## ENSG00000102996	58	63	73	699	619	822
## ENSG00000070761	263	294	395	376	435	521
## ENSG00000070770	786	1017	1053	696	863	986
## ENSG00000103021	31	47	53	27	27	44
## ENSG00000103023	0	0	0	0	0	0
## ENSG00000181938	39	52	76	19	20	27
## ENSG00000103034	190	210	271	411	435	592
## ENSG00000103037	37	50	59	54	48	74
## ENSG00000125107	2801	3254	3922	2944	3231	3815
## ENSG00000279816	0	0	0	0	1	1
## ENSG00000103042	582	671	788	1214	1324	1624
## ENSG00000125166	1422	1590	2059	1523	1755	2098
## ENSG00000278499	0	0	0	0	0	0
## ENSG00000150394	0	0	0	0	0	0
## ENSG00000140937	3048	3443	4338	2200	2583	2881
## ENSG00000179776	0	0	0	0	0	0
## ENSG00000166546	0	1	0	2	1	2
## ENSG00000260851	0	0	0	0	0	0
## ENSG00000166548	292	329	397	591	624	711
## ENSG00000217555	4	4	7	7	10	9
## ENSG00000254788	3	3	4	5	5	13
## ENSG00000089505	25	29	20	35	30	38
## ENSG00000140932	0	1	0	0	1	0
## ENSG00000140931	557	641	797	1609	1813	2169
## ENSG00000183723	254	339	365	318	364	415
## ENSG00000135720	2111	2383	2935	2456	2897	3188
## ENSG00000249961	1	2	1	0	0	0
## ENSG00000159593	427	530	640	513	592	665
## ENSG00000168748	1	0	0	2	1	2
## ENSG00000172840	269	286	350	619	656	834
## ENSG00000166589	0	0	0	0	0	0
## ENSG00000166592	30	23	47	49	44	69
## ENSG00000166595	617	736	849	834	846	1083
## ENSG00000172831	550	537	834	907	964	1108
## ENSG00000172828	0	1	2	2	5	7
## ENSG00000172824	9	6	7	11	13	11
## ENSG00000067955	922	1221	1480	1219	1281	1517
## ENSG00000125149	221	226	293	337	315	403
## ENSG00000237172	279	317	414	437	472	599
## ENSG00000102871	188	198	278	261	285	364

## ENSG00000135722	34	39	54	54	80	110
## ENSG00000102878	2	2	4	6	6	4
## ENSG00000265690	0	0	0	0	0	0
## ENSG00000140939	86	98	111	101	118	117
## ENSG00000196123	157	179	214	427	437	531
## ENSG00000179044	9	7	6	12	7	4
## ENSG00000205250	612	722	972	899	983	1188
## ENSG00000102890	10	19	12	7	11	15
## ENSG00000125122	22	24	34	26	39	38
## ENSG00000168701	315	395	459	500	577	672
## ENSG00000135723	822	964	1231	957	1056	1235
## ENSG00000135740	90	82	119	159	140	163
## ENSG00000196155	186	237	271	78	96	129
## ENSG00000168676	0	1	1	0	2	0
## ENSG00000159708	2	0	0	0	0	2
## ENSG00000159713	7	5	10	8	7	8
## ENSG00000159714	88	94	122	229	211	297
## ENSG00000176387	0	1	2	3	1	1
## ENSG00000159720	1252	1442	1969	1598	1790	1975
## ENSG00000159723	0	0	1	0	0	0
## ENSG00000039523	979	1129	1498	1121	1155	1406
## ENSG00000102974	546	617	823	552	590	679
## ENSG00000159753	15	13	23	20	28	30
## ENSG00000102977	168	187	260	182	224	250
## ENSG00000102981	2	3	5	8	3	2
## ENSG00000124074	35	58	65	90	88	98
## ENSG00000159761	3	1	2	4	5	8
## ENSG00000141098	343	420	568	603	650	831
## ENSG00000141084	343	339	441	247	273	338
## ENSG00000102904	6	9	17	8	19	22
## ENSG00000102901	473	593	748	358	462	516
## ENSG00000168286	197	196	276	225	225	314
## ENSG00000102898	1285	1522	1962	1527	1729	1859
## ENSG00000038358	763	895	1185	664	753	914
## ENSG00000188038	0	0	0	0	0	0
## ENSG00000159792	477	496	677	1409	1488	1860
## ENSG00000141086	1	0	0	0	0	1
## ENSG00000261884	4	6	11	4	13	19
## ENSG00000205220	67	81	100	207	177	225
## ENSG00000213398	57	68	68	86	105	103
## ENSG00000124067	1605	1877	2545	2482	2545	3278
## ENSG00000141096	0	0	0	0	0	0
## ENSG00000167261	0	0	0	2	1	0
## ENSG00000167264	160	153	189	142	159	166
## ENSG00000182810	86	93	138	98	103	151
## ENSG00000072736	249	285	359	433	465	556
## ENSG00000103067	0	1	1	3	2	0
## ENSG00000103066	730	859	1154	664	702	824
## ENSG00000103064	309	409	458	283	322	348
## ENSG00000103061	90	103	114	60	75	96
## ENSG00000132600	305	336	482	249	287	308
## ENSG00000103056	7	5	4	6	4	4
## ENSG00000184939	300	361	470	424	452	567
## ENSG00000062038	0	0	0	0	0	0



## ENSG00000039068	0	0	3	0	0	0
## ENSG00000103047	287	347	384	225	247	288
## ENSG00000103044	12	24	28	14	22	18
## ENSG00000168802	904	1132	1507	1190	1243	1565
## ENSG00000141076	680	810	994	654	725	863
## ENSG00000168807	1444	1701	1949	1161	1334	1531
## ENSG00000260914	0	1	0	0	0	0
## ENSG00000132612	742	867	1081	699	780	926
## ENSG00000213380	215	267	297	326	326	370
## ENSG00000258429	35	60	62	41	43	60
## ENSG00000272617	0	0	0	0	0	0
## ENSG00000260371	0	0	0	0	0	0
## ENSG00000259900	0	0	0	0	0	0
## ENSG00000132603	363	438	508	355	417	492
## ENSG00000157315	10	6	6	10	3	3
## ENSG00000132604	316	383	468	347	335	419
## ENSG00000103018	857	1063	1314	1268	1299	1684
## ENSG00000102908	1017	1289	1446	1648	1939	2237
## ENSG00000181019	2765	3104	3828	2759	3081	3874
## ENSG00000141101	338	353	499	433	484	597
## ENSG00000198373	481	474	650	670	682	852
## ENSG00000157322	0	0	0	2	2	0
## ENSG00000279533	0	0	0	0	0	0
## ENSG00000090857	610	722	788	723	774	987
## ENSG00000157335	0	0	0	0	1	0
## ENSG00000280006	0	0	0	0	0	0
## ENSG00000280252	0	0	1	0	0	0
## ENSG00000223496	361	355	470	408	413	525
## ENSG00000090861	2415	2470	3168	1546	1807	1848
## ENSG00000157349	118	136	156	103	138	170
## ENSG00000260537	0	0	1	0	0	0
## ENSG00000168872	704	758	997	767	878	1012
## ENSG00000157350	719	855	1100	1524	1556	2060
## ENSG00000157353	95	108	129	81	90	120
## ENSG00000103051	768	914	1128	431	520	532
## ENSG00000189091	2681	3027	3858	2831	3192	3486
## ENSG00000157368	12	6	11	0	0	2
## ENSG00000132613	458	501	695	868	901	1178
## ENSG00000103043	506	584	813	820	858	1089
## ENSG00000157423	1	1	1	1	1	0
## ENSG00000180917	360	356	434	557	633	807
## ENSG00000172137	8	12	14	46	38	70
## ENSG00000167377	20	17	34	20	18	25
## ENSG00000261611	0	0	0	0	0	0
## ENSG00000157429	16	16	13	19	12	17
## ENSG00000140835	0	0	1	0	0	0
## ENSG00000198650	0	0	0	0	0	0
## ENSG00000140832	0	0	0	0	0	0
## ENSG00000040199	439	503	643	405	508	565
## ENSG00000166747	1939	2278	2845	1643	1915	2218
## ENSG00000224470	552	696	776	1033	1148	1312
## ENSG00000182149	1139	1282	1679	1401	1572	1781
## ENSG00000102984	35	31	52	33	34	44
## ENSG00000277481	0	0	1	0	1	2

## ENSG00000102967	55	62	75	31	43	34
## ENSG00000140830	99	124	130	132	130	162
## ENSG00000257017	0	0	0	0	0	0
## ENSG00000261701	0	0	0	0	0	0
## ENSG00000140829	940	1081	1364	1018	1159	1416
## ENSG00000118557	0	1	0	1	1	1
## ENSG00000280264	0	0	0	0	1	0
## ENSG00000140836	410	453	485	361	354	412
## ENSG00000103035	697	764	1023	789	848	1042
## ENSG00000196436	14	16	25	18	25	33
## ENSG00000140839	1	2	1	1	0	2
## ENSG00000090863	4711	5037	6555	5475	6214	6898
## ENSG00000168411	477	598	728	316	314	341
## ENSG00000168404	89	112	126	94	102	124
## ENSG00000103089	0	0	0	0	0	1
## ENSG00000103091	351	380	506	452	491	597
## ENSG00000186187	356	385	463	399	480	558
## ENSG00000166816	2	0	5	1	0	2
## ENSG00000184517	108	119	152	161	180	200
## ENSG00000168928	1	0	1	0	4	2
## ENSG00000168925	0	0	1	0	0	2
## ENSG00000050820	2395	2756	3714	3517	3682	4545
## ENSG00000153774	362	426	519	526	511	662
## ENSG00000261717	0	0	0	0	0	0
## ENSG00000166822	110	97	157	208	214	300
## ENSG00000183196	9	9	13	6	7	9
## ENSG00000260092	0	0	0	0	0	0
## ENSG00000135702	1	0	0	0	0	0
## ENSG00000205084	107	106	143	168	181	193
## ENSG00000034713	700	786	984	1077	1184	1365
## ENSG00000065457	328	351	439	402	438	517
## ENSG00000065427	1893	2145	2642	1586	1920	2170
## ENSG00000166848	942	1102	1356	1163	1241	1431
## ENSG00000152910	0	0	0	0	0	0
## ENSG00000261833	0	0	0	0	0	0
## ENSG00000103111	456	502	700	403	451	521
## ENSG00000205078	3	4	2	2	1	1
## ENSG00000140873	0	0	1	0	0	1
## ENSG00000140876	11	15	10	8	7	13
## ENSG00000171724	861	938	1104	1305	1394	1686
## ENSG00000166509	0	0	0	0	0	0
## ENSG00000186153	24	22	29	32	38	50
## ENSG00000178573	5	1	4	3	6	3
## ENSG00000168589	0	0	0	0	1	0
## ENSG00000166446	178	246	265	348	392	475
## ENSG00000103121	220	286	363	210	230	290
## ENSG00000166451	231	292	333	105	109	143
## ENSG00000166454	819	903	1202	1026	1114	1380
## ENSG00000166455	12	10	8	11	10	9
## ENSG00000140905	74	75	106	59	63	77
## ENSG00000279362	0	0	0	0	0	0
## ENSG00000135697	0	0	0	0	0	0
## ENSG00000261609	157	191	205	219	246	251
## ENSG00000153815	493	610	775	534	581	745

## ENSG00000197943	2	1	3	4	7	12
## ENSG00000184860	1	3	11	2	7	9
## ENSG00000086696	7	7	12	210	211	300
## ENSG00000135698	256	286	364	995	1018	1473
## ENSG00000140945	978	1002	1411	1233	1308	1506
## ENSG00000230989	1351	1618	1940	1778	1998	2375
## ENSG00000103150	120	119	167	112	129	150
## ENSG00000260300	1	0	1	9	9	3
## ENSG00000140961	137	139	196	247	268	353
## ENSG00000103154	1	8	3	4	5	5
## ENSG00000166558	0	0	0	0	0	0
## ENSG00000140943	2418	2615	3295	736	806	984
## ENSG00000103160	360	378	408	500	570	664
## ENSG00000154099	0	2	3	5	3	2
## ENSG00000103168	239	274	365	190	239	254
## ENSG00000140955	0	0	0	0	0	0
## ENSG00000168418	0	0	0	0	0	1
## ENSG00000103175	277	323	420	244	320	356
## ENSG00000064270	3	7	5	9	4	6
## ENSG00000140950	811	1038	1305	789	854	977
## ENSG00000103187	9026	10252	13349	6086	6997	7848
## ENSG00000135686	906	990	1233	771	847	959
## ENSG00000103194	1107	1313	1684	963	1039	1291
## ENSG00000103196	513	588	742	695	805	900
## ENSG00000153786	1648	1889	2473	880	1056	1144
## ENSG00000135709	543	593	789	291	334	385
## ENSG00000153789	0	1	3	2	1	2
## ENSG00000131149	777	850	1070	572	609	691
## ENSG00000131153	144	154	236	22	34	40
## ENSG00000154102	56	55	79	48	56	68
## ENSG00000131148	437	522	694	443	498	553
## ENSG00000131143	1879	2131	2749	2369	2687	3234
## ENSG00000140968	0	0	0	0	0	0
## ENSG00000103241	1823	1969	2459	4509	5332	6506
## ENSG00000103248	143	143	207	155	179	195
## ENSG00000176692	176	244	297	170	203	222
## ENSG00000176678	1408	1696	2204	2380	2699	3090
## ENSG00000260456	9	9	9	17	14	9
## ENSG00000131152	0	0	0	0	0	0
## ENSG00000103264	354	433	605	263	313	341
## ENSG00000140941	1995	2278	2863	2906	3372	3699
## ENSG00000140948	401	457	571	1066	1087	1294
## ENSG00000154118	2	3	1	2	4	1
## ENSG00000104731	209	210	287	185	195	235
## ENSG00000103257	4446	4925	6374	1771	2201	2237
## ENSG00000174990	0	0	0	0	0	0
## ENSG00000172530	180	198	239	186	219	239
## ENSG00000225614	2395	2826	3334	3578	4164	4549
## ENSG00000179588	91	138	159	193	219	278
## ENSG00000158545	641	695	990	732	716	872
## ENSG00000124391	1	3	0	1	1	1
## ENSG00000051523	809	815	1042	1140	1159	1517
## ENSG00000167508	487	565	680	668	622	854
## ENSG00000185669	20	24	27	23	24	23

## ENSG00000280603	0	0	0	0	0	0
## ENSG00000158717	188	225	267	248	287	361
## ENSG00000174177	296	337	444	298	300	392
## ENSG00000103335	4662	5142	6999	3641	3955	4596
## ENSG00000167513	137	180	260	63	87	73
## ENSG00000198931	915	950	1298	783	925	1056
## ENSG00000141012	595	615	852	770	770	882
## ENSG00000280675	0	0	0	0	0	0
## ENSG00000167515	307	378	427	403	476	538
## ENSG00000205022	0	0	0	0	0	0
## ENSG00000129993	0	0	0	0	1	0
## ENSG00000176715	179	212	288	238	224	311
## ENSG00000129910	9	10	12	22	11	21
## ENSG00000259803	13	7	18	19	15	22
## ENSG00000170100	111	142	163	103	154	155
## ENSG00000167522	3312	3632	4697	3799	4208	4980
## ENSG00000197912	985	1128	1399	1246	1310	1611
## ENSG00000167526	8003	9047	11268	8763	9366	11158
## ENSG00000178773	133	113	142	132	135	189
## ENSG00000015413	0	0	0	0	0	0
## ENSG00000131165	1243	1436	1784	1553	1628	2035
## ENSG00000167523	60	83	67	114	96	117
## ENSG00000185324	320	314	432	307	303	388
## ENSG00000158792	115	144	158	187	200	278
## ENSG00000075399	222	254	339	191	235	267
## ENSG00000158805	79	92	135	164	165	168
## ENSG00000187741	143	198	265	47	60	52
## ENSG00000204991	20	25	27	43	35	60
## ENSG00000141002	1442	1634	1995	1758	1966	2406
## ENSG00000258839	36	46	45	59	70	59
## ENSG00000198211	0	0	0	0	0	0
## ENSG00000258947	90	111	129	148	146	212
## ENSG00000140995	746	919	1075	775	804	897
## ENSG00000177946	55	59	90	99	103	114
## ENSG00000003249	353	414	556	280	287	371
## ENSG00000141013	102	98	114	161	158	200
## ENSG00000126856	1	0	0	0	0	0
## ENSG00000268320	0	0	0	0	0	0
## ENSG00000272636	0	0	0	3	1	2
## ENSG00000181031	10	14	17	7	9	10
## ENSG00000187624	23	16	24	19	17	27
## ENSG00000183688	1175	1518	1937	783	916	1088
## ENSG00000141252	1070	1296	1666	1031	1085	1212
## ENSG00000167695	311	344	412	277	307	340
## ENSG00000179409	427	441	554	317	371	486
## ENSG00000167699	391	504	602	516	560	652
## ENSG00000281182	0	0	0	0	0	0
## ENSG00000171861	85	114	128	112	112	135
## ENSG00000167693	1666	1825	2303	1368	1702	1554
## ENSG00000177370	438	491	647	475	520	620
## ENSG00000159842	2037	2328	3005	2288	2416	2921
## ENSG00000205899	0	0	0	0	1	1
## ENSG00000184811	0	0	0	0	0	0
## ENSG00000108953	8027	9291	11713	6724	7541	8724

## ENSG00000167193	1648	1961	2369	2341	2467	3023
## ENSG00000197879	6225	7043	9299	4289	4786	5548
## ENSG00000132376	286	313	349	758	864	1033
## ENSG00000174238	1132	1363	1728	1417	1689	1970
## ENSG00000167703	216	269	328	313	381	345
## ENSG00000074660	4	5	4	4	8	5
## ENSG00000167705	25	28	37	16	24	16
## ENSG00000174231	5605	6237	8427	5716	6140	7317
## ENSG00000185561	112	161	161	50	78	100
## ENSG00000167716	352	393	459	712	703	913
## ENSG00000167711	0	0	0	0	1	1
## ENSG00000132386	411	447	593	510	533	652
## ENSG00000186532	113	142	184	153	179	214
## ENSG00000132383	946	1145	1430	688	751	862
## ENSG00000185924	0	1	2	4	1	0
## ENSG00000108963	260	304	395	321	355	414
## ENSG00000262664	0	0	0	0	0	0
## ENSG00000177374	595	711	850	1688	1893	2347
## ENSG00000070366	572	639	796	970	1087	1283
## ENSG00000167720	94	107	120	67	60	85
## ENSG00000167721	803	967	1182	736	879	964
## ENSG00000141258	354	409	542	407	471	505
## ENSG00000070444	297	319	459	594	702	812
## ENSG00000127804	459	546	691	492	541	704
## ENSG00000007168	2483	3025	3545	2727	3256	3602
## ENSG00000132361	1101	1349	1742	1341	1539	1801
## ENSG00000132359	134	162	199	160	152	188
## ENSG00000262628	0	0	0	0	0	0
## ENSG00000184166	0	0	0	0	0	0
## ENSG00000183024	0	0	0	0	0	0
## ENSG00000172150	0	0	0	0	0	0
## ENSG00000172146	0	0	0	0	0	0
## ENSG00000221882	0	0	0	0	0	0
## ENSG00000180090	0	0	0	1	0	0
## ENSG00000180016	0	0	0	0	0	0
## ENSG00000159961	0	0	0	0	0	0
## ENSG00000127780	0	0	0	0	0	0
## ENSG00000141255	2	1	8	3	3	6
## ENSG00000108381	1	0	0	0	0	0
## ENSG00000167723	7	2	2	2	1	3
## ENSG00000262304	0	0	0	1	0	0
## ENSG00000196689	0	2	0	1	1	1
## ENSG00000197417	34	37	40	30	37	35
## ENSG00000040531	182	193	269	384	410	510
## ENSG00000213977	146	178	206	225	257	288
## ENSG00000257950	9	6	9	6	5	15
## ENSG00000127774	18	26	38	37	36	59
## ENSG00000083454	23	33	49	29	28	33
## ENSG00000083457	220	254	348	230	252	315
## ENSG00000177602	45	64	75	24	22	21
## ENSG00000074356	665	652	832	919	923	1121
## ENSG00000004660	143	154	183	82	92	95
## ENSG00000108405	1	0	0	0	0	0
## ENSG00000074370	27	36	40	155	130	168

## ENSG00000074755	1091	1285	1484	1278	1462	1630
## ENSG00000167740	164	151	218	274	295	330
## ENSG00000185722	1385	1631	1977	1650	1868	2251
## ENSG00000132388	936	1059	1338	1153	1243	1538
## ENSG00000182557	0	1	0	0	0	1
## ENSG00000183018	3	2	8	10	10	5
## ENSG00000132382	1157	1333	1847	1158	1226	1571
## ENSG00000167741	0	0	0	1	0	0
## ENSG00000188176	0	0	0	0	0	0
## ENSG00000161905	0	0	0	0	0	0
## ENSG00000141456	669	703	952	593	661	812
## ENSG00000141480	79	58	107	33	44	61
## ENSG00000161920	56	56	73	66	50	79
## ENSG00000161921	11	10	16	7	6	9
## ENSG00000141497	1	0	0	0	0	1
## ENSG00000142484	0	0	0	0	0	0
## ENSG00000182853	1	1	0	2	2	2
## ENSG00000182327	6	4	7	10	13	13
## ENSG00000142507	1147	1337	1711	1100	1277	1457
## ENSG00000129219	266	272	391	387	425	485
## ENSG00000141503	1415	1624	2113	2268	2552	3055
## ENSG00000108556	1	3	0	1	0	2
## ENSG00000205710	10	8	9	2	3	5
## ENSG00000185245	17	19	17	13	20	22
## ENSG00000108528	607	671	847	667	699	910
## ENSG00000108523	728	874	1023	1200	1207	1564
## ENSG00000108518	12450	13847	17594	11294	12133	13921
## ENSG00000108515	20	17	20	18	21	24
## ENSG00000091640	560	611	716	618	712	844
## ENSG00000108509	623	678	907	615	693	727
## ENSG00000196388	25	27	47	28	33	33
## ENSG00000129250	3472	3980	5135	3149	3460	4025
## ENSG00000132517	1	0	0	0	1	1
## ENSG00000180787	26	34	30	58	58	61
## ENSG00000167840	47	62	64	110	110	115
## ENSG00000129204	7	4	4	15	10	18
## ENSG00000180626	75	62	70	102	83	130
## ENSG00000161929	1	0	0	0	1	1
## ENSG00000029725	1068	1236	1529	1063	1258	1414
## ENSG00000108559	604	708	893	527	607	730
## ENSG00000129197	248	260	322	346	376	445
## ENSG00000108561	1244	1448	1827	1430	1460	1723
## ENSG00000005100	543	666	736	620	735	800
## ENSG00000072849	488	566	736	710	762	890
## ENSG00000167842	165	216	227	255	283	368
## ENSG00000091592	2990	3383	4450	3555	4288	4392
## ENSG00000179314	2	5	1	5	9	13
## ENSG00000129221	0	0	0	0	0	0
## ENSG00000129195	245	367	466	33	47	51
## ENSG00000091622	209	249	355	252	262	363
## ENSG00000198920	317	302	443	468	456	541
## ENSG00000129235	511	652	788	711	766	817
## ENSG00000108590	62	69	77	119	99	143
## ENSG00000279257	0	0	0	0	0	0

## ENSG00000141485	0	0	0	0	0	0
## ENSG00000132530	4	6	12	2	3	1
## ENSG00000177294	0	0	0	0	0	0
## ENSG00000167858	0	0	0	0	0	0
## ENSG00000108839	10	10	14	16	24	41
## ENSG00000219200	16	25	28	35	41	45
## ENSG00000161939	0	0	0	0	0	0
## ENSG00000258315	3	1	2	1	2	3
## ENSG00000161940	1	0	0	0	1	0
## ENSG00000174327	33	34	46	47	50	84
## ENSG00000174326	2	2	4	5	2	7
## ENSG00000132514	0	0	0	0	0	0
## ENSG00000161944	0	0	0	0	0	0
## ENSG00000141505	9	11	15	42	31	40
## ENSG00000132535	513	596	754	1033	1035	1338
## ENSG00000072778	2395	2663	3526	2618	2899	3379
## ENSG00000004975	361	406	533	899	883	1154
## ENSG00000040633	773	793	981	1213	1215	1541
## ENSG00000170296	58	75	57	60	80	78
## ENSG00000262526	0	0	0	0	0	0
## ENSG00000175826	791	908	1170	858	917	1149
## ENSG00000262302	0	0	0	0	0	0
## ENSG00000170291	235	311	381	359	380	411
## ENSG00000181885	1	2	2	3	2	4
## ENSG00000181856	2	1	0	4	4	3
## ENSG00000006047	2	0	0	0	0	1
## ENSG00000132507	6230	7197	9075	5620	6145	7177
## ENSG00000132522	10	6	17	14	8	17
## ENSG00000261915	0	0	0	0	0	0
## ENSG00000215041	289	287	408	450	447	534
## ENSG00000072818	11	10	18	11	12	15
## ENSG00000213859	326	366	514	371	370	468
## ENSG00000182896	0	0	0	0	0	1
## ENSG00000174292	8	6	8	26	14	36
## ENSG00000187838	1	3	3	6	5	6
## ENSG00000262481	2	2	3	1	3	1
## ENSG00000205544	61	66	101	75	75	105
## ENSG00000169992	1368	1445	1972	2171	2377	2863
## ENSG00000181323	0	0	0	0	0	0
## ENSG00000184560	0	0	0	0	0	0
## ENSG00000181284	24	22	27	25	35	42
## ENSG00000161958	0	1	2	3	0	0
## ENSG00000170175	38	53	49	34	47	42
## ENSG00000174282	2056	2353	3053	1203	1291	1500
## ENSG00000259224	1	2	0	5	8	8
## ENSG00000181222	3397	3710	4669	2573	2673	3079
## ENSG00000239697	88	105	147	47	61	68
## ENSG00000248871	0	0	0	0	0	0
## ENSG00000161955	12	11	13	7	13	14
## ENSG00000161956	250	275	321	338	339	402
## ENSG00000277957	1	1	1	0	0	2
## ENSG00000161960	26	31	34	37	40	51
## ENSG00000129226	0	0	0	0	2	0
## ENSG00000129255	590	669	838	546	586	742

## ENSG00000129194	10	18	22	14	9	13
## ENSG00000129245	857	1079	1337	1260	1340	1582
## ENSG00000129214	7	7	12	8	6	11
## ENSG00000141504	336	347	439	662	652	890
## ENSG00000129244	3	3	2	9	8	13
## ENSG00000141510	680	842	1028	674	741	851
## ENSG00000141499	137	169	228	162	174	210
## ENSG00000108947	35	49	65	89	99	122
## ENSG00000183914	1	0	1	1	2	0
## ENSG00000132510	419	361	470	1738	1757	2302
## ENSG00000167874	3	1	4	14	9	11
## ENSG00000183011	271	298	404	274	336	374
## ENSG00000182224	6	7	15	13	14	20
## ENSG00000170004	3706	4083	5155	3219	3685	4015
## ENSG00000281523	0	0	0	0	0	1
## ENSG00000170049	25	21	33	20	17	19
## ENSG00000262730	0	0	0	0	0	0
## ENSG00000170043	986	1132	1429	1203	1417	1572
## ENSG00000170037	468	538	631	415	470	533
## ENSG00000132518	0	0	0	0	0	0
## ENSG00000179593	0	1	0	0	0	0
## ENSG00000179477	0	0	0	0	0	0
## ENSG00000179148	3	2	2	1	2	3
## ENSG00000179111	7	12	17	28	41	57
## ENSG00000179094	169	209	254	265	268	383
## ENSG00000263620	0	0	0	0	0	0
## ENSG00000220205	355	427	561	552	676	721
## ENSG00000179029	44	48	59	49	49	70
## ENSG00000196544	47	72	84	102	92	116
## ENSG00000279152	0	0	0	0	0	0
## ENSG00000178999	212	299	358	32	44	40
## ENSG00000178971	92	103	142	63	67	101
## ENSG00000178921	537	652	785	314	349	397
## ENSG00000125434	25	32	43	23	28	21
## ENSG00000108961	16	13	33	28	25	37
## ENSG00000198844	0	0	0	0	0	0
## ENSG00000184650	0	0	0	0	0	0
## ENSG00000184619	3	4	3	7	5	17
## ENSG00000263809	2	3	0	1	2	5
## ENSG00000161970	1096	1327	1525	1018	1199	1229
## ENSG00000189051	0	0	0	0	0	0
## ENSG00000166579	1110	1352	1702	1103	1306	1476
## ENSG00000133026	2650	2968	3677	1345	1676	1578
## ENSG00000161973	0	0	0	0	0	0
## ENSG00000183318	0	0	0	0	0	0
## ENSG00000185156	0	0	0	0	0	0
## ENSG00000276231	0	0	0	0	0	0
## ENSG00000141506	0	0	0	0	0	0
## ENSG00000065320	7	11	8	36	28	35
## ENSG00000170310	164	205	278	169	209	272
## ENSG00000166596	0	0	0	1	1	0
## ENSG00000154914	0	0	0	0	0	0
## ENSG00000184544	0	0	0	0	0	0
## ENSG00000214978	0	0	0	0	0	0



## ENSG00000065325	1	2	5	5	3	14
## ENSG00000109047	0	3	0	1	4	0
## ENSG00000007237	308	362	443	333	368	438
## ENSG00000006788	0	0	0	0	0	0
## ENSG00000133020	0	0	0	0	0	0
## ENSG00000264424	0	0	1	0	1	0
## ENSG00000109061	0	0	0	0	0	0
## ENSG00000125414	0	0	0	0	1	0
## ENSG00000109063	9	11	12	5	7	12
## ENSG00000133028	486	563	649	458	503	587
## ENSG00000170222	54	61	91	125	166	164
## ENSG00000187824	21	30	27	22	29	31
## ENSG00000233670	0	0	0	0	0	0
## ENSG00000188803	0	0	0	0	0	0
## ENSG00000007174	0	0	0	0	0	0
## ENSG00000154957	73	88	86	67	85	103
## ENSG00000065559	621	779	885	883	961	1178
## ENSG00000141052	389	439	550	147	222	208
## ENSG00000006740	44	31	49	68	53	67
## ENSG00000006744	965	1031	1443	730	786	942
## ENSG00000153976	136	152	190	208	203	287
## ENSG00000006695	181	217	238	183	221	243
## ENSG00000223510	0	1	0	0	0	1
## ENSG00000125430	165	192	210	226	237	300
## ENSG00000109099	497	509	666	215	269	265
## ENSG00000125409	1	4	3	0	0	0
## ENSG00000239704	1	4	1	1	4	1
## ENSG00000259024	0	1	1	2	1	0
## ENSG00000175106	31	43	58	40	42	47
## ENSG00000241322	0	1	0	0	0	1
## ENSG00000251537	0	0	1	0	1	0
## ENSG00000221926	187	205	255	137	170	186
## ENSG00000187607	102	115	129	267	221	303
## ENSG00000255104	0	0	0	0	0	0
## ENSG00000214946	0	0	0	0	0	0
## ENSG00000170425	78	78	68	134	138	166
## ENSG00000214941	78	83	90	101	109	165
## ENSG00000011295	324	392	496	468	552	629
## ENSG00000141027	2313	2751	3240	2171	2443	2849
## ENSG00000108474	56	71	72	73	56	69
## ENSG00000166582	154	173	227	55	94	81
## ENSG00000170315	3898	4191	5222	4548	5200	5915
## ENSG00000187688	873	1146	1433	798	810	1049
## ENSG00000181350	10	13	15	10	11	3
## ENSG00000141040	78	91	86	103	94	118
## ENSG00000197566	49	31	47	49	52	62
## ENSG00000170160	8	10	14	14	22	22
## ENSG00000266302	9	2	8	7	6	7
## ENSG00000240505	0	0	0	0	0	0
## ENSG00000133030	4666	5529	7235	5670	6353	7112
## ENSG00000179598	17	18	26	29	23	30
## ENSG00000264187	1	0	0	0	0	3
## ENSG00000154803	249	279	388	705	703	919
## ENSG00000141030	772	888	1160	641	801	768

## ENSG00000205309	3	2	2	5	3	4
## ENSG00000141026	154	139	184	133	155	207
## ENSG00000108551	27	43	46	30	43	46
## ENSG00000133027	143	148	200	182	200	237
## ENSG00000108557	1058	1229	1581	1362	1472	1849
## ENSG00000072310	573	528	767	742	785	1018
## ENSG00000175662	1204	1483	1864	1095	1238	1340
## ENSG00000171962	18	14	30	32	24	26
## ENSG00000171953	109	131	172	97	120	160
## ENSG00000141034	244	235	296	396	391	462
## ENSG00000108591	256	327	469	384	420	467
## ENSG00000091536	3	2	2	0	3	1
## ENSG00000091542	869	973	1230	1102	1189	1482
## ENSG00000131899	880	1058	1429	1044	1095	1366
## ENSG00000177731	3042	3298	4381	2536	2612	3081
## ENSG00000177427	171	194	226	195	206	232
## ENSG00000177302	364	419	539	401	422	530
## ENSG00000176994	698	738	1032	1125	1196	1503
## ENSG00000176974	56	82	100	24	37	40
## ENSG00000214860	0	0	0	0	0	0
## ENSG00000171916	0	0	0	0	0	0
## ENSG00000213077	1	3	1	1	0	1
## ENSG00000189375	0	0	0	1	0	0
## ENSG00000249459	33	33	37	72	80	134
## ENSG00000108448	37	64	64	45	56	90
## ENSG00000171931	0	1	0	0	0	0
## ENSG00000171928	562	639	844	629	667	823
## ENSG00000141127	210	265	324	200	208	229
## ENSG00000154025	0	0	3	0	0	0
## ENSG00000188522	476	595	754	778	842	1041
## ENSG00000154016	0	0	0	0	0	1
## ENSG00000189152	0	0	0	0	0	0
## ENSG00000072134	591	675	846	652	713	886
## ENSG00000108641	66	91	113	47	56	60
## ENSG00000166484	352	422	553	496	519	600
## ENSG00000166482	1238	1267	1717	1155	1321	1548
## ENSG00000128482	63	59	65	14	31	25
## ENSG00000142494	0	0	0	0	1	0
## ENSG00000072210	67	71	74	47	50	76
## ENSG00000180638	0	0	0	0	0	0
## ENSG00000108602	0	0	0	0	0	0
## ENSG00000083290	165	199	236	274	312	354
## ENSG00000108599	418	438	586	505	612	667
## ENSG00000128487	699	777	966	825	977	1063
## ENSG00000170298	0	0	0	0	0	0
## ENSG00000214819	0	0	0	0	0	0
## ENSG00000205212	0	0	0	0	0	0
## ENSG00000124422	3403	4027	5110	3147	3397	4040
## ENSG00000109016	158	187	245	167	167	175
## ENSG00000178307	267	335	405	326	316	410
## ENSG00000274180	208	228	298	200	222	263
## ENSG00000034152	1635	1856	2460	1592	1702	2114
## ENSG00000184185	6	9	13	8	12	8
## ENSG00000212719	524	502	608	393	374	488

## ENSG00000260458	0	0	0	0	0	0
## ENSG00000256618	1	0	1	0	3	1
## ENSG00000109046	819	868	1098	877	1052	1071
## ENSG00000141068	466	508	685	463	580	639
## ENSG00000266728	0	0	0	0	0	0
## ENSG00000168961	22	22	19	74	74	99
## ENSG00000007171	0	0	0	0	0	0
## ENSG00000266202	0	0	0	0	0	0
## ENSG00000232859	13	15	19	12	19	14
## ENSG00000087095	324	327	443	354	438	488
## ENSG00000109084	160	215	278	204	199	246
## ENSG00000109083	287	339	387	406	463	509
## ENSG00000109079	1283	1452	1822	2148	2400	2866
## ENSG00000004142	1434	1700	2246	1287	1424	1562
## ENSG00000244045	87	81	156	138	171	217
## ENSG00000274529	0	0	0	0	0	0
## ENSG00000273171	0	0	0	0	0	0
## ENSG00000004139	105	109	157	189	199	234
## ENSG00000109072	5	11	5	6	4	11
## ENSG00000076351	68	59	91	32	41	35
## ENSG00000258472	12	15	6	9	13	8
## ENSG00000007216	0	0	0	0	0	0
## ENSG00000109101	0	0	0	0	0	0
## ENSG00000109103	242	255	325	262	262	373
## ENSG00000087111	1130	1210	1688	1637	1828	2006
## ENSG00000109107	106	99	146	129	123	162
## ENSG00000076382	534	646	852	104	126	110
## ENSG00000167524	14	9	12	12	12	13
## ENSG00000007202	2899	3304	4095	3410	3773	4469
## ENSG00000132581	542	613	845	895	995	1118
## ENSG00000109111	3390	3689	4681	4148	4579	5139
## ENSG00000167525	4	8	16	11	18	21
## ENSG00000109113	1986	2278	3006	2571	2833	3472
## ENSG00000198242	1852	2169	2550	1666	1756	2132
## ENSG00000160606	38	39	40	43	47	51
## ENSG00000160602	16	22	27	44	34	55
## ENSG00000076604	542	618	850	1721	1795	2356
## ENSG00000173065	435	465	638	958	951	1254
## ENSG00000132591	507	552	759	427	483	591
## ENSG00000132589	944	1104	1485	973	1049	1291
## ENSG00000167536	16	14	19	15	12	21
## ENSG00000109118	402	471	641	618	622	713
## ENSG00000179761	2	2	1	2	2	3
## ENSG00000063015	1	1	1	3	0	0
## ENSG00000196535	1151	1189	1622	597	669	753
## ENSG00000221995	9	13	16	13	7	7
## ENSG00000108255	0	0	0	0	1	0
## ENSG00000108256	1636	1817	2063	2250	2423	2838
## ENSG00000160551	2098	2615	2791	2641	3207	3658
## ENSG00000168792	142	180	222	192	195	291
## ENSG00000167543	365	395	547	533	524	693
## ENSG00000108262	620	703	916	845	948	1075
## ENSG00000198720	88	107	97	151	151	169
## ENSG00000167549	28	33	42	7	12	19

## ENSG00000141298	368	416	448	368	382	424
## ENSG00000176927	5	4	10	3	3	5
## ENSG00000126653	445	485	662	616	652	706
## ENSG00000108576	0	1	1	1	4	5
## ENSG00000108578	423	501	623	579	652	800
## ENSG00000182271	0	0	0	0	0	0
## ENSG00000108582	3763	4063	5258	3459	4014	4583
## ENSG00000108587	571	664	782	879	926	1100
## ENSG00000266733	0	0	0	0	0	0
## ENSG00000176390	145	137	189	194	195	284
## ENSG00000176208	57	91	97	22	36	37
## ENSG00000172171	59	66	91	54	59	87
## ENSG00000184060	15	21	19	43	48	46
## ENSG00000181481	140	152	187	202	203	270
## ENSG00000196712	1586	1820	1952	1996	2332	2534
## ENSG00000126861	3	2	0	0	0	3
## ENSG00000185862	4	7	2	2	0	0
## ENSG00000265118	0	0	0	0	0	0
## ENSG00000126860	7	8	6	1	2	1
## ENSG00000131242	21	14	28	3	8	9
## ENSG00000172301	584	674	860	507	553	665
## ENSG00000108651	570	695	824	623	727	778
## ENSG00000178691	696	757	945	501	553	763
## ENSG00000185158	41	44	44	48	53	63
## ENSG00000126858	419	471	605	234	266	287
## ENSG00000141314	1	6	6	7	13	7
## ENSG00000108666	146	165	217	207	229	247
## ENSG00000010244	1595	1863	2401	1136	1320	1460
## ENSG00000108671	1418	1603	2066	1149	1243	1472
## ENSG00000176749	26	22	38	56	57	63
## ENSG00000176658	43	36	51	100	145	198
## ENSG00000006042	822	931	1197	1432	1638	1911
## ENSG00000141316	0	0	0	0	0	0
## ENSG00000108684	1	0	9	7	10	4
## ENSG00000108691	693	853	984	815	902	1102
## ENSG00000108688	14	20	11	17	30	24
## ENSG00000172156	1	0	0	1	0	0
## ENSG00000108700	0	0	0	0	0	0
## ENSG00000181374	0	1	0	0	0	0
## ENSG00000108702	0	0	0	0	0	0
## ENSG00000181291	0	0	1	1	2	2
## ENSG00000132141	17	20	26	17	18	16
## ENSG00000198783	136	117	143	204	205	223
## ENSG00000005156	377	485	566	352	346	413
## ENSG00000092871	163	188	236	79	106	79
## ENSG00000267618	0	0	0	0	0	0
## ENSG00000185379	178	176	194	102	151	147
## ENSG00000073598	1	3	3	1	3	1
## ENSG00000073536	256	303	369	145	150	194
## ENSG00000141161	0	0	0	0	0	0
## ENSG00000164729	0	0	0	0	0	0
## ENSG00000166750	1818	2043	2240	2516	2826	3406
## ENSG00000172716	543	628	757	141	184	209
## ENSG00000172123	265	327	383	272	355	350

## ENSG00000154760	11	30	22	4	5	9
## ENSG00000205045	2	1	1	1	2	5
## ENSG00000236320	0	0	0	0	0	0
## ENSG00000108733	113	87	135	54	57	63
## ENSG00000006125	4965	5663	7367	4147	4838	5235
## ENSG00000270647	1729	1858	2168	1864	2018	2406
## ENSG00000270885	208	225	297	150	166	216
## ENSG00000270765	0	0	0	0	0	0
## ENSG00000271447	1	2	2	8	7	1
## ENSG00000270806	0	0	0	1	0	0
## ENSG00000270379	0	1	0	0	0	0
## ENSG00000271503	0	0	0	0	0	0
## ENSG00000278023	1	0	0	1	0	0
## ENSG00000275722	0	0	0	0	0	0
## ENSG00000275152	0	0	0	0	0	0
## ENSG00000276409	0	0	0	0	0	0
## ENSG00000275688	0	0	0	0	0	0
## ENSG00000275718	0	0	0	0	0	0
## ENSG00000274736	0	0	0	0	0	0
## ENSG00000275385	0	0	0	0	0	0
## ENSG00000277632	0	0	0	0	0	0
## ENSG00000275302	0	0	0	0	0	0
## ENSG00000274808	0	0	0	0	1	1
## ENSG00000276085	0	0	0	0	0	0
## ENSG00000276070	0	0	0	0	0	0
## ENSG00000274933	0	0	0	0	0	0
## ENSG00000260287	0	0	0	0	0	0
## ENSG00000274226	0	0	0	0	0	0
## ENSG00000275954	0	0	0	0	0	0
## ENSG00000273611	188	184	263	268	301	383
## ENSG00000278259	382	437	571	331	366	432
## ENSG00000277161	101	157	180	139	184	248
## ENSG00000278311	801	873	1109	981	1089	1265
## ENSG00000278535	60	53	91	42	59	59
## ENSG00000278619	53	63	68	54	57	85
## ENSG00000273706	0	0	0	0	0	0
## ENSG00000275700	543	642	798	640	645	778
## ENSG00000278540	1141	1351	1541	813	843	999
## ENSG00000278505	1	0	0	1	0	0
## ENSG00000276234	207	216	274	157	176	200
## ENSG00000276023	850	1081	1359	737	834	870
## ENSG00000275066	790	867	1160	791	888	966
## ENSG00000278053	590	653	783	815	927	1069
## ENSG00000275410	0	0	0	2	1	1
## ENSG00000273513	0	0	0	0	0	0
## ENSG00000274419	0	0	0	0	0	0
## ENSG00000274512	0	2	0	0	0	1
## ENSG00000278299	0	0	0	0	0	0
## ENSG00000278599	0	1	0	0	0	1
## ENSG00000274611	0	0	0	0	0	0
## ENSG00000278845	317	396	475	490	515	603
## ENSG00000277399	1	0	0	1	0	1
## ENSG00000274211	270	326	404	541	548	717
## ENSG00000275832	3094	3738	4770	1948	2238	2408

## ENSG00000277363	0	0	0	1	0	0
## ENSG00000273604	30	35	37	37	37	65
## ENSG00000275023	493	546	752	479	567	648
## ENSG00000279119	0	0	0	0	0	0
## ENSG00000277972	167	184	270	184	224	276
## ENSG00000277258	423	480	665	660	724	854
## ENSG00000277791	928	1052	1370	1129	1234	1416
## ENSG00000276293	1555	1761	2288	1993	2148	2658
## ENSG00000273559	214	234	317	285	300	307
## ENSG00000275489	0	0	0	0	0	1
## ENSG00000125691	5192	6017	7121	5874	6560	7308
## ENSG00000002834	10281	11864	15147	7443	8473	9430
## ENSG00000204952	0	0	1	0	0	0
## ENSG00000161381	5	4	6	4	9	8
## ENSG00000141748	0	0	0	0	0	0
## ENSG00000067191	81	66	87	58	50	54
## ENSG00000108298	7902	9039	11094	7500	8310	9513
## ENSG00000141750	1	1	1	1	2	0
## ENSG00000108306	235	245	274	550	639	761
## ENSG00000125686	953	1121	1548	880	1004	1223
## ENSG00000167258	1130	1409	1709	1611	1779	2124
## ENSG00000171532	0	0	0	0	0	0
## ENSG00000131771	1	0	1	0	1	1
## ENSG00000131748	480	550	644	995	968	1355
## ENSG00000173991	2	3	3	5	3	6
## ENSG00000141744	0	0	0	0	0	0
## ENSG00000161395	115	145	169	113	125	158
## ENSG00000141736	1097	1266	1706	787	917	937
## ENSG00000141741	242	308	297	346	350	450
## ENSG00000141738	0	0	2	0	0	0
## ENSG00000161405	0	0	0	1	0	0
## ENSG00000186075	0	0	0	0	0	0
## ENSG00000073605	73	49	69	84	73	97
## ENSG00000172057	883	972	1316	1041	1200	1348
## ENSG00000204913	0	0	0	0	0	0
## ENSG00000167914	2	1	0	0	0	0
## ENSG00000108344	2326	2832	3525	2079	2256	2753
## ENSG00000108342	0	0	0	6	8	15
## ENSG00000008838	722	857	1104	901	945	1114
## ENSG00000126351	636	722	932	428	537	580
## ENSG00000126368	157	194	255	272	291	377
## ENSG00000188895	1056	1167	1579	1379	1392	1771
## ENSG00000108349	1032	1120	1467	1025	1079	1279
## ENSG00000108352	37	49	45	31	33	42
## ENSG00000171475	719	910	1202	668	864	952
## ENSG00000094804	174	222	323	59	67	54
## ENSG00000131759	319	340	451	565	562	738
## ENSG00000183153	3	3	0	3	7	6
## ENSG00000131747	2304	2888	3689	385	459	461
## ENSG00000141753	22573	25566	32754	42123	46765	52949
## ENSG00000131746	1	3	1	3	1	1
## ENSG00000126353	8	2	4	7	9	10
## ENSG00000073584	850	1069	1219	1126	1375	1511
## ENSG00000264058	0	0	0	0	0	0

## ENSG00000213424	0	0	0	0	0	0
## ENSG00000167916	0	0	0	0	0	0
## ENSG00000204897	0	0	0	0	0	0
## ENSG00000186393	0	0	0	0	0	0
## ENSG00000171446	0	0	0	0	0	0
## ENSG00000173908	0	0	0	0	0	0
## ENSG00000186395	446	555	613	508	610	698
## ENSG00000167920	158	174	225	212	180	270
## ENSG00000187242	0	0	2	0	4	2
## ENSG00000171431	0	0	0	1	0	0
## ENSG00000108244	0	0	0	0	0	0
## ENSG00000196859	0	0	0	0	0	0
## ENSG00000204889	0	0	2	0	0	0
## ENSG00000212899	0	0	0	0	0	0
## ENSG00000212900	0	0	0	0	0	0
## ENSG00000212901	0	0	0	0	0	0
## ENSG00000221852	391	429	555	97	143	128
## ENSG00000204887	0	0	0	0	0	0
## ENSG00000221880	0	0	0	0	0	0
## ENSG00000188581	2	2	7	0	0	0
## ENSG00000212725	0	0	0	0	0	0
## ENSG00000214518	1	0	1	0	0	0
## ENSG00000212724	162	259	298	24	54	37
## ENSG00000213417	1	1	2	0	0	0
## ENSG00000240871	0	1	1	0	0	0
## ENSG00000204880	1	2	0	0	0	0
## ENSG00000241241	0	0	0	0	0	0
## ENSG00000212722	0	1	1	0	2	0
## ENSG00000212721	0	1	1	0	0	0
## ENSG00000213416	7	15	15	4	6	5
## ENSG00000198090	0	0	0	0	0	0
## ENSG00000198271	0	0	0	0	0	0
## ENSG00000171396	0	0	0	0	0	0
## ENSG00000196156	0	0	0	0	0	0
## ENSG00000244537	0	0	0	0	0	0
## ENSG00000198443	0	0	0	0	0	0
## ENSG00000239886	0	0	0	0	0	0
## ENSG00000240542	0	0	0	0	0	0
## ENSG00000198083	0	0	0	0	0	0
## ENSG00000204873	0	0	0	0	0	0
## ENSG00000187272	0	0	0	0	0	0
## ENSG00000241595	0	0	0	0	0	0
## ENSG00000212659	0	0	0	0	0	0
## ENSG00000180386	0	0	0	0	0	0
## ENSG00000212658	0	0	0	0	0	0
## ENSG00000212657	0	0	0	0	0	0
## ENSG00000186860	0	0	0	0	0	0
## ENSG00000006059	0	0	0	0	1	0
## ENSG00000131738	0	4	2	0	1	2
## ENSG00000131737	21	26	49	7	6	8
## ENSG00000094796	0	0	0	0	0	0
## ENSG00000108417	1	0	0	0	0	0
## ENSG00000171360	0	0	0	0	0	0
## ENSG00000108759	0	0	1	0	0	0

## ENSG00000197079	0	0	0	0	0	0
## ENSG00000126337	1	0	0	0	1	1
## ENSG00000171401	0	0	2	0	1	0
## ENSG00000171346	51	46	77	7	12	11
## ENSG00000171345	40	36	44	11	8	7
## ENSG00000171403	0	0	0	0	0	0
## ENSG00000186847	0	0	0	0	1	0
## ENSG00000186832	0	0	0	0	0	0
## ENSG00000128422	11	10	6	14	16	19
## ENSG00000173812	5332	6034	7748	5192	5741	6681
## ENSG00000184502	0	0	0	0	1	0
## ENSG00000173805	7	3	4	26	37	53
## ENSG00000173801	1174	1287	1710	4181	4176	5331
## ENSG00000141696	1331	1486	1888	1561	1530	1813
## ENSG00000141756	8341	9296	11809	8071	9307	10248
## ENSG00000141698	448	515	657	537	593	663
## ENSG00000161594	0	0	3	0	0	1
## ENSG00000178502	53	55	71	73	62	68
## ENSG00000131473	7338	8568	11240	6202	6836	7850
## ENSG00000204815	4	5	7	12	5	7
## ENSG00000173786	1457	1662	2072	1579	1706	1975
## ENSG00000168259	898	1005	1261	835	937	1069
## ENSG00000168256	927	1020	1322	1397	1450	1791
## ENSG00000187595	1	0	1	0	0	3
## ENSG00000108771	17	9	11	6	10	16
## ENSG00000108773	292	341	424	306	294	383
## ENSG00000267261	0	0	0	0	0	0
## ENSG00000260325	0	0	4	1	5	5
## ENSG00000108774	802	967	1184	1194	1247	1397
## ENSG00000089558	0	3	0	2	1	2
## ENSG00000161610	0	0	1	0	0	0
## ENSG00000167925	94	99	140	129	148	173
## ENSG00000173757	476	581	724	413	457	518
## ENSG00000126561	29	34	43	111	114	124
## ENSG00000168610	2115	2396	2940	4282	4798	5538
## ENSG00000177469	24139	28167	35959	14759	17315	17728
## ENSG00000033627	627	741	973	1152	1236	1458
## ENSG00000108784	423	460	575	711	868	942
## ENSG00000108786	28	28	57	72	64	86
## ENSG00000068120	620	736	921	678	734	880
## ENSG00000108788	517	582	741	801	733	923
## ENSG00000131470	75	82	124	44	50	45
## ENSG00000141699	611	678	885	1282	1379	1644
## ENSG00000131462	568	685	935	290	315	370
## ENSG00000037042	103	132	146	84	112	115
## ENSG00000068137	211	258	328	249	273	342
## ENSG00000184451	8	9	7	6	3	4
## ENSG00000108797	1226	1343	1703	967	1100	1303
## ENSG00000108799	276	272	369	323	342	397
## ENSG00000131477	1	9	7	5	3	4
## ENSG00000131475	544	592	813	566	630	759
## ENSG00000126562	227	237	318	131	159	165
## ENSG00000183978	210	247	318	261	261	297
## ENSG00000176563	1	7	7	3	9	5



## ENSG00000126581	630	712	926	1035	1173	1360
## ENSG00000131467	1772	2216	2642	2045	2234	2667
## ENSG00000131480	12	8	18	43	32	41
## ENSG00000131471	1	1	1	5	3	6
## ENSG00000131482	0	0	0	0	0	0
## ENSG00000108825	0	0	0	2	0	1
## ENSG00000266967	6	8	5	3	11	7
## ENSG00000267060	11	14	9	3	3	6
## ENSG00000198863	192	238	304	267	285	304
## ENSG00000281079	0	0	0	0	1	1
## ENSG00000131469	4973	4981	6393	4380	4983	5178
## ENSG00000068079	53	54	65	51	55	86
## ENSG00000108828	3828	4330	5694	7531	7737	9792
## ENSG00000108830	23	18	27	6	11	16
## ENSG00000012048	177	214	308	91	92	109
## ENSG00000188554	2264	2580	3113	3099	3408	4024
## ENSG00000184988	170	161	239	92	98	82
## ENSG00000175906	159	188	201	81	77	100
## ENSG00000067596	774	936	1183	856	913	1052
## ENSG00000175832	253	331	445	540	553	763
## ENSG00000005102	0	4	2	0	0	3
## ENSG00000167941	0	0	0	0	0	0
## ENSG00000108861	1484	1868	2276	2144	2225	2923
## ENSG00000231256	0	0	1	1	2	2
## ENSG00000161647	50	60	77	55	50	78
## ENSG00000161649	0	0	0	1	0	0
## ENSG00000108852	71	69	100	36	47	52
## ENSG00000108849	0	0	0	0	0	0
## ENSG00000131096	1	0	0	1	2	0
## ENSG00000161653	9	9	13	16	16	20
## ENSG00000091947	216	256	324	418	434	608
## ENSG00000161654	297	355	433	336	408	516
## ENSG00000141349	834	970	1257	1583	1662	1974
## ENSG00000108840	801	928	1212	1526	1562	1980
## ENSG00000125319	62	42	64	26	32	49
## ENSG00000161664	19	11	24	17	25	29
## ENSG00000168591	390	457	602	512	568	689
## ENSG00000087152	1064	1209	1488	2044	2230	2775
## ENSG00000108312	1093	1176	1537	1173	1215	1583
## ENSG00000004939	0	0	0	0	0	0
## ENSG00000108309	3	1	4	2	5	5
## ENSG00000013306	1040	1205	1439	837	868	1050
## ENSG00000030582	3058	3318	4504	4827	5011	6321
## ENSG00000161682	245	329	387	524	559	642
## ENSG00000005961	1	1	4	2	1	2
## ENSG00000186566	828	906	1181	902	1045	1259
## ENSG00000180340	1052	1090	1400	535	587	580
## ENSG00000180336	10	17	15	17	31	21
## ENSG00000180329	304	316	386	323	348	455
## ENSG00000161692	125	177	186	49	47	58
## ENSG00000073670	10	11	7	14	18	23
## ENSG00000182963	917	1119	1403	483	615	670
## ENSG00000131097	1	0	0	1	2	2
## ENSG00000108883	1559	1765	2417	1784	1952	2445

## ENSG00000167131	0	0	0	0	0	0
## ENSG00000214447	0	0	0	0	0	0
## ENSG00000131095	0	1	1	0	1	1
## ENSG00000186185	194	257	323	28	37	48
## ENSG00000131094	8	7	4	7	11	15
## ENSG00000172992	264	299	364	295	318	351
## ENSG00000136448	2031	2375	3087	1621	1781	2085
## ENSG00000161714	650	737	943	705	771	922
## ENSG00000181513	28	29	44	22	30	29
## ENSG00000186834	539	596	736	745	740	946
## ENSG00000168517	5	11	21	7	7	11
## ENSG00000184922	37	63	89	60	86	120
## ENSG00000184361	0	1	1	0	0	1
## ENSG00000006062	140	131	172	30	37	47
## ENSG00000159314	7	10	11	20	23	30
## ENSG00000225190	571	589	742	566	590	703
## ENSG00000120088	0	0	0	0	0	0
## ENSG00000185294	0	0	0	0	0	0
## ENSG00000186868	4	6	7	8	7	8
## ENSG00000256762	0	0	0	0	0	0
## ENSG00000120071	461	505	599	506	590	713
## ENSG00000228696	5	5	13	4	9	5
## ENSG00000176681	11	20	22	6	16	14
## ENSG00000238083	31	34	30	39	32	44
## ENSG00000185829	12	8	8	14	24	20
## ENSG00000073969	934	1079	1483	747	912	1005
## ENSG00000108379	21	20	34	22	19	25
## ENSG00000158955	0	0	0	0	0	0
## ENSG00000108433	326	324	448	387	395	433
## ENSG00000262633	0	0	0	0	0	0
## ENSG00000179673	0	0	0	0	0	1
## ENSG00000004897	1792	2151	2660	1409	1805	1885
## ENSG00000198336	1	2	0	0	0	1
## ENSG00000259207	250	327	343	329	341	463
## ENSG00000259753	0	0	0	0	0	0
## ENSG00000178852	12	14	18	13	23	19
## ENSG00000141279	1548	1698	2072	2175	2542	3053
## ENSG00000108424	6207	7394	9064	4043	4723	5093
## ENSG00000198933	156	189	250	240	243	317
## ENSG00000073861	0	0	0	0	0	2
## ENSG00000006025	54	55	92	42	38	44
## ENSG00000159111	455	451	564	452	478	550
## ENSG00000141294	7	5	12	11	21	11
## ENSG00000141295	94	112	140	118	117	125
## ENSG00000189120	7	7	6	1	2	0
## ENSG00000167182	256	270	368	223	217	255
## ENSG00000108439	151	173	206	129	117	140
## ENSG00000167183	4	1	0	1	0	1
## ENSG00000108465	332	375	492	416	455	508
## ENSG00000005243	577	671	877	292	379	318
## ENSG00000082641	4628	4920	6429	6056	6328	7401
## ENSG00000108468	1303	1583	1900	1036	1150	1280
## ENSG00000002919	296	407	460	425	482	568
## ENSG00000141293	0	0	0	0	0	0

## ENSG00000120094	0	0	0	0	0	0
## ENSG00000173917	447	541	723	631	750	825
## ENSG00000120093	750	941	1099	319	487	408
## ENSG00000182742	153	171	195	176	201	242
## ENSG00000120075	586	658	875	521	586	666
## ENSG00000108511	307	328	420	397	424	533
## ENSG00000260027	146	161	198	259	243	321
## ENSG00000120068	63	59	72	69	70	90
## ENSG00000170689	3	3	5	2	0	1
## ENSG00000159182	0	0	0	0	0	0
## ENSG00000229637	0	0	0	0	0	0
## ENSG00000159184	0	0	0	0	0	0
## ENSG00000170703	1	0	0	0	0	0
## ENSG00000136436	821	913	1190	776	922	988
## ENSG00000159199	489	649	721	428	467	603
## ENSG00000159202	2192	2518	3266	3256	3729	4197
## ENSG00000159210	627	729	969	773	846	1006
## ENSG00000159224	3	2	1	1	0	3
## ENSG00000159217	1077	1252	1389	1913	1995	2429
## ENSG00000167080	7	6	8	2	5	6
## ENSG00000167083	0	1	1	1	1	0
## ENSG00000108798	6	8	9	1	8	6
## ENSG00000173868	15	11	11	7	10	11
## ENSG00000198740	178	189	188	178	199	243
## ENSG00000167085	1063	1140	1489	977	1086	1250
## ENSG00000281126	0	0	3	1	1	0
## ENSG00000064300	2	3	2	5	9	11
## ENSG00000182575	1	4	3	4	3	1
## ENSG00000121067	502	531	697	687	704	814
## ENSG00000121073	569	686	857	829	935	1109
## ENSG00000121104	39	37	44	49	36	47
## ENSG00000136504	453	553	694	511	543	675
## ENSG00000176358	0	0	1	1	1	2
## ENSG00000108813	0	0	0	0	0	1
## ENSG00000064195	0	0	1	0	1	0
## ENSG00000005884	5510	6158	8446	6624	7467	8316
## ENSG00000005882	226	271	342	367	391	435
## ENSG00000167100	268	327	409	767	719	1039
## ENSG00000108819	1420	1548	2077	2072	2289	2693
## ENSG00000108823	1	3	6	3	2	5
## ENSG00000108821	296263	305981	409931	411442	476419	506723
## ENSG00000167105	14	21	20	25	31	21
## ENSG00000015532	1116	1233	1614	1422	1435	1867
## ENSG00000108826	408	480	625	466	508	568
## ENSG00000154920	52	45	57	13	8	12
## ENSG00000108829	4353	5188	6763	1892	2278	2380
## ENSG00000167107	171	174	215	123	137	146
## ENSG00000136457	1	1	1	1	3	2
## ENSG00000136444	295	339	439	384	442	478
## ENSG00000136449	3	3	1	3	2	2
## ENSG00000049283	0	0	0	0	1	0
## ENSG00000006282	408	459	596	462	591	618
## ENSG00000006283	3	10	4	11	10	12
## ENSG00000108846	242	245	313	152	141	229

## ENSG00000154945	681	763	950	640	754	869
## ENSG00000108848	853	894	1234	1187	1334	1574
## ENSG00000173714	0	0	0	0	0	0
## ENSG00000141232	333	347	437	307	376	351
## ENSG00000008294	1516	1869	2297	1677	2075	2070
## ENSG00000239672	587	644	864	380	475	557
## ENSG00000011052	0	2	1	0	2	1
## ENSG00000243678	25	46	49	40	34	48
## ENSG00000011258	110	116	154	182	181	203
## ENSG00000011260	376	476	567	550	604	751
## ENSG00000154975	0	0	0	0	0	0
## ENSG00000141200	0	0	0	0	0	0
## ENSG00000141198	100	100	126	45	42	55
## ENSG00000166260	394	484	555	475	470	594
## ENSG00000166263	164	194	264	198	184	253
## ENSG00000108924	0	0	0	0	0	0
## ENSG00000108960	180	162	226	436	456	670
## ENSG00000166292	10	5	6	11	6	11
## ENSG00000141179	99	127	146	167	181	205
## ENSG00000153930	1	0	0	0	0	0
## ENSG00000183691	77	95	140	38	38	55
## ENSG00000214226	21	30	34	30	34	42
## ENSG00000153933	78	103	119	144	154	237
## ENSG00000121060	951	1035	1308	456	530	676
## ENSG00000121058	237	248	336	239	304	320
## ENSG00000121064	412	462	572	760	773	940
## ENSG00000121057	152	182	238	182	187	221
## ENSG00000153944	430	549	587	569	720	727
## ENSG00000166329	0	0	0	0	0	0
## ENSG00000181610	379	526	662	429	485	594
## ENSG00000180891	648	703	904	412	568	603
## ENSG00000136451	678	824	1067	550	554	686
## ENSG00000266086	0	0	0	0	0	0
## ENSG00000136450	1974	2504	3132	1501	1777	2066
## ENSG00000264364	1349	1568	1829	1314	1577	1773
## ENSG00000141194	0	0	0	0	0	0
## ENSG00000255713	0	0	0	0	0	0
## ENSG00000121053	0	0	0	0	0	1
## ENSG00000011143	76	85	83	54	62	69
## ENSG00000167419	0	1	0	1	0	0
## ENSG00000005381	1	0	0	0	0	0
## ENSG00000005379	4	7	12	4	6	3
## ENSG00000213246	432	553	620	591	638	761
## ENSG00000108375	0	0	0	0	0	0
## ENSG00000176160	0	0	0	0	0	0
## ENSG00000108389	473	480	682	443	468	517
## ENSG00000108387	1	1	0	2	0	2
## ENSG00000181013	0	0	0	0	0	0
## ENSG00000121101	0	1	2	0	1	1
## ENSG00000108384	155	164	224	125	150	168
## ENSG00000175175	4	5	6	3	3	5
## ENSG00000108395	500	557	685	732	892	1085
## ENSG00000182628	563	615	802	287	356	346
## ENSG00000068489	729	894	1132	90	108	119

## ENSG00000265303	0	0	0	0	0	0
## ENSG00000167447	263	296	420	317	395	441
## ENSG00000153982	15	15	32	78	66	100
## ENSG00000175155	128	99	160	219	244	291
## ENSG00000108406	471	553	663	573	633	754
## ENSG00000141367	12660	14784	18230	14535	16958	19121
## ENSG00000141378	209	255	290	310	337	347
## ENSG00000062716	1642	1821	2117	2459	2833	3316
## ENSG00000108423	27	50	47	48	46	51
## ENSG00000108443	530	593	743	351	410	474
## ENSG00000267318	0	0	0	0	0	0
## ENSG00000189050	90	88	137	119	146	156
## ENSG00000068097	295	321	466	218	257	307
## ENSG00000280852	15	16	27	17	19	14
## ENSG00000167434	0	0	0	0	0	2
## ENSG00000170832	816	952	1221	791	931	1042
## ENSG00000141371	0	0	0	0	0	0
## ENSG00000062725	846	984	1242	691	796	912
## ENSG00000170836	235	211	290	366	313	445
## ENSG00000281267	1	0	0	1	1	0
## ENSG00000141376	201	222	250	348	387	489
## ENSG00000121068	2213	2610	3508	5810	6280	8193
## ENSG00000121075	1	0	0	3	1	0
## ENSG00000253506	3	5	2	5	4	4
## ENSG00000136492	199	264	342	35	50	57
## ENSG00000108506	166	186	251	184	200	246
## ENSG00000108510	1111	1139	1414	1646	1788	2104
## ENSG00000270033	0	0	0	0	0	0
## ENSG00000172421	0	0	0	0	0	0
## ENSG00000087995	195	248	280	190	211	272
## ENSG00000146872	636	693	871	840	923	1078
## ENSG00000011028	7605	8067	10967	12766	13605	17234
## ENSG00000173838	1	5	5	3	0	3
## ENSG00000170921	1148	1395	1642	1055	1214	1260
## ENSG00000008283	91	106	152	198	198	262
## ENSG00000159640	43	28	41	60	88	82
## ENSG00000264813	0	0	0	0	0	0
## ENSG00000173826	3	4	3	45	47	57
## ENSG00000136485	2298	2596	3316	4255	4420	5677
## ENSG00000136463	218	242	331	230	261	249
## ENSG00000198909	525	621	830	781	835	1002
## ENSG00000136490	163	188	271	122	127	178
## ENSG00000266173	38	47	56	64	56	79
## ENSG00000125695	0	0	0	0	0	0
## ENSG00000108588	1237	1416	1950	1511	1703	2002
## ENSG00000198231	1582	1759	2189	1905	2174	2418
## ENSG00000108592	1002	1102	1448	1309	1396	1623
## ENSG00000087191	1310	1385	1868	1363	1608	1831
## ENSG00000108604	632	753	923	934	922	1285
## ENSG00000213218	0	0	0	0	0	0
## ENSG00000136487	0	0	0	0	0	0
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## ENSG00000204414	0	0	0	0	0	0
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## ENSG00000007312	0	0	0	0	0	1
## ENSG00000007314	0	1	0	0	0	0
## ENSG00000224383	2	2	2	6	1	3
## ENSG00000108622	3	0	1	2	1	2
## ENSG00000178607	184	186	223	320	297	397
## ENSG00000136478	874	978	1273	412	553	589
## ENSG00000261371	1	0	1	1	3	1
## ENSG00000271605	5	2	2	2	0	1
## ENSG00000256525	62	58	79	51	69	57
## ENSG00000108654	5329	6407	8487	7892	9528	11171
## ENSG00000258890	145	170	188	179	209	222
## ENSG00000108854	6137	7218	9024	4098	4935	5438
## ENSG00000176809	50	56	71	62	48	62
## ENSG00000120063	922	1145	1383	1722	2053	2498
## ENSG00000108370	12	17	20	28	26	38
## ENSG00000168646	13	13	15	6	9	9
## ENSG00000266076	0	0	0	0	0	0
## ENSG00000154240	110	141	143	96	108	119
## ENSG00000091583	0	1	0	0	0	0
## ENSG00000154229	2262	2619	3118	1915	2153	2329
## ENSG00000075429	0	0	0	0	0	0
## ENSG00000075461	4	12	7	8	5	4
## ENSG00000108878	0	0	0	0	0	0
## ENSG00000198265	768	817	939	513	507	616
## ENSG00000197170	1042	1192	1535	1268	1457	1626
## ENSG00000154217	176	213	299	621	596	849
## ENSG00000130935	617	692	850	526	615	720
## ENSG00000171634	1258	1364	1577	1499	1580	1947
## ENSG00000186665	54	109	126	103	92	122
## ENSG00000182481	2968	3511	4669	1142	1421	1509
## ENSG00000196704	660	729	884	724	799	942
## ENSG00000141337	148	159	190	176	160	242
## ENSG00000108932	55	77	87	1115	975	1498
## ENSG00000070540	850	966	1197	618	647	839
## ENSG00000108946	3223	3663	4782	2375	2643	3118
## ENSG00000108950	0	1	0	2	1	3
## ENSG00000141338	53	49	64	76	57	92
## ENSG00000154258	1	1	0	3	1	2
## ENSG00000154262	6	0	1	10	7	17
## ENSG00000154263	0	2	0	5	4	5
## ENSG00000154265	27	19	31	23	31	21
## ENSG00000108984	13	7	13	10	10	11
## ENSG00000153822	0	0	0	0	0	0
## ENSG00000123700	193	218	273	216	238	244
## ENSG00000125398	995	1131	1462	1870	2035	2320
## ENSG00000133195	247	270	329	185	155	169
## ENSG00000180616	2	2	1	6	9	11
## ENSG00000166685	563	596	858	456	542	547
## ENSG00000133193	301	367	445	176	193	231
## ENSG00000141219	237	259	406	245	295	337
## ENSG00000187959	0	0	0	0	0	0
## ENSG00000179604	466	524	681	409	460	509
## ENSG00000069188	1	3	7	8	5	3
## ENSG00000172809	2148	2434	2907	2305	2543	2814

## ENSG00000141540	24	20	33	6	6	9
## ENSG00000171595	0	0	0	0	0	0
## ENSG00000196169	0	0	0	0	0	0
## ENSG00000204347	0	1	0	0	0	0
## ENSG00000257008	0	1	0	0	0	0
## ENSG00000170412	0	0	0	6	5	6
## ENSG00000167851	0	0	0	0	0	0
## ENSG00000178789	0	0	1	1	0	0
## ENSG00000167850	0	0	1	0	0	0
## ENSG00000204345	0	0	0	0	0	0
## ENSG00000186407	0	1	0	0	0	0
## ENSG00000172794	2	1	1	0	1	1
## ENSG00000186074	0	0	0	0	0	0
## ENSG00000109062	135	142	217	165	199	210
## ENSG00000109065	393	447	556	502	546	610
## ENSG00000109066	808	822	1182	941	999	1130
## ENSG00000161509	1	2	0	1	3	5
## ENSG00000161513	262	232	292	453	490	515
## ENSG00000172782	0	0	0	0	0	0
## ENSG00000182040	0	0	1	0	0	0
## ENSG00000183034	0	0	0	0	0	0
## ENSG00000281273	0	0	0	0	0	0
## ENSG00000182938	0	0	0	0	0	0
## ENSG00000167861	8	15	15	10	12	16
## ENSG00000109089	919	978	1355	919	964	1254
## ENSG00000167862	210	205	259	209	204	232
## ENSG00000180901	475	557	708	674	723	847
## ENSG00000281674	0	0	0	0	0	0
## ENSG00000167863	1073	1265	1622	1237	1368	1542
## ENSG00000170190	21	30	47	23	26	30
## ENSG00000125449	102	108	171	171	135	167
## ENSG00000125458	112	112	151	112	113	154
## ENSG00000189159	1836	2081	2776	1068	1222	1439
## ENSG00000188612	1659	2039	2451	1987	2265	2522
## ENSG00000125450	279	382	461	285	318	379
## ENSG00000125447	471	493	678	256	275	320
## ENSG00000125445	535	544	696	512	528	619
## ENSG00000125457	45	48	73	34	58	58
## ENSG00000125454	32	43	67	41	50	56
## ENSG00000177885	1802	2221	2818	2620	2834	3398
## ENSG00000177728	487	547	737	951	1002	1204
## ENSG00000177303	283	311	402	304	324	375
## ENSG00000182173	128	118	141	103	124	155
## ENSG00000073350	4	2	5	3	7	13
## ENSG00000266714	3	0	2	8	6	13
## ENSG00000108469	155	163	198	174	196	236
## ENSG00000204323	5	2	1	4	1	1
## ENSG00000259120	1	0	0	0	0	0
## ENSG00000161526	592	701	885	689	794	951
## ENSG00000132470	3	0	3	3	3	1
## ENSG00000108479	197	202	310	160	209	219
## ENSG00000132475	3666	4644	5797	6148	7067	8881
## ENSG00000132478	195	231	262	272	294	364
## ENSG00000092929	4	4	5	3	6	4

```
## ENSG00000132471      898      925      1277      2140      2081      2572
## ENSG00000132481       78       90       87       43       40       51
## ENSG00000141569     267     288     371     390     371     467
## ENSG00000204316      15      11      20      14      18      13
## ENSG00000267426       0       1       0       0       2       2
## ENSG00000188878      25      29      41      12      13      25
## ENSG00000281844       0       0       0       0       0       0
## ENSG00000161533     681     788     971     520     626     690
## ENSG00000257949       1       0       0       0       0       0
## ENSG00000261408       2       3       2       5       2       6
## ENSG00000250506       2       1       1       0       1       6
## ENSG00000167880       0       0       0       1       0       0
## ENSG00000167881    1474    1642    2207    1037    1234    1353
## ENSG00000186919       1       1       2      11      13       7
## ENSG00000182687       3       5       3       9       8       8
## ENSG00000182473    1142    1436    1756    1710    1824    2250
## ENSG00000129654       0       0       0       0       0       0
## ENSG00000141576      50      57      95      50      68      74
## ENSG00000185262     222     283     313     383     452     528
## ENSG00000129646      55      47      55      58      52      55
## ENSG00000161542     368     428     554     336     423     472
## ENSG00000176170     531     720     940     639     703     942
## ENSG00000175931     620     692     905     606     598     710
## ENSG00000129673       1       1       1       0       0       0
## ENSG00000129667     124     140     192      85      84     108
## ENSG00000161544      72      86     113     415     435     541
## ENSG00000214140       5       5       3       8       7      11
## ENSG00000070731       4       2       1       4       3       8
## ENSG00000070526       0       0       0       0       0       0
## [ reached getOption("max.print") -- omitted 3142 rows ]
```

```
head(countData)
```

```
##                SRR493366 SRR493367 SRR493368 SRR493369 SRR493370 SRR493371
## ENSG00000186092         0         0         0         0         0         0
## ENSG00000279928         0         0         0         0         0         0
## ENSG00000279457        23        28        29        29        28        46
## ENSG00000278566         0         0         0         0         0         0
## ENSG00000273547         0         0         0         0         0         0
## ENSG00000187634       124       123       205       207       212       258
```

Q2. Complete the code below to filter countData to exclude genes (i.e. rows) where we have 0 read count across all samples (i.e. columns).

```
#delete the rows which have no counts across all samples i.e. rowSums=0, subset fn dels the rows
countData <- subset(countData, rowSums(countData) != 0 )
head(countData)
```

```
##                SRR493366 SRR493367 SRR493368 SRR493369 SRR493370 SRR493371
## ENSG00000279457        23        28        29        29        28        46
## ENSG00000187634       124       123       205       207       212       258
## ENSG00000188976     1637     1831     2383     1226     1326     1504
## ENSG00000187961       120       153       180       236       255       357
```



```
## ENSG00000187583      24      48      65      44      48      64
## ENSG00000187642       4       9      16      14      16      16
```

```
dds = DESeqDataSetFromMatrix(countData=countData,
                              colData=colData,
                              design=~condition)
```

```
## Warning in DESeqDataSet(se, design = design, ignoreRank): some variables in
## design formula are characters, converting to factors
```

```
dds = DESeq(dds)
```

```
## estimating size factors
```

```
## estimating dispersions
```

```
## gene-wise dispersion estimates
```

```
## mean-dispersion relationship
```

```
## final dispersion estimates
```

```
## fitting model and testing
```

```
dds
```

```
## class: DESeqDataSet
## dim: 15975 6
## metadata(1): version
## assays(4): counts mu H cooks
## rownames(15975): ENSG00000279457 ENSG00000187634 ... ENSG00000276345
##      ENSG00000271254
## rowData names(22): baseMean baseVar ... deviance maxCooks
## colnames(6): SRR493366 SRR493367 ... SRR493370 SRR493371
## colData names(2): condition sizeFactor
```

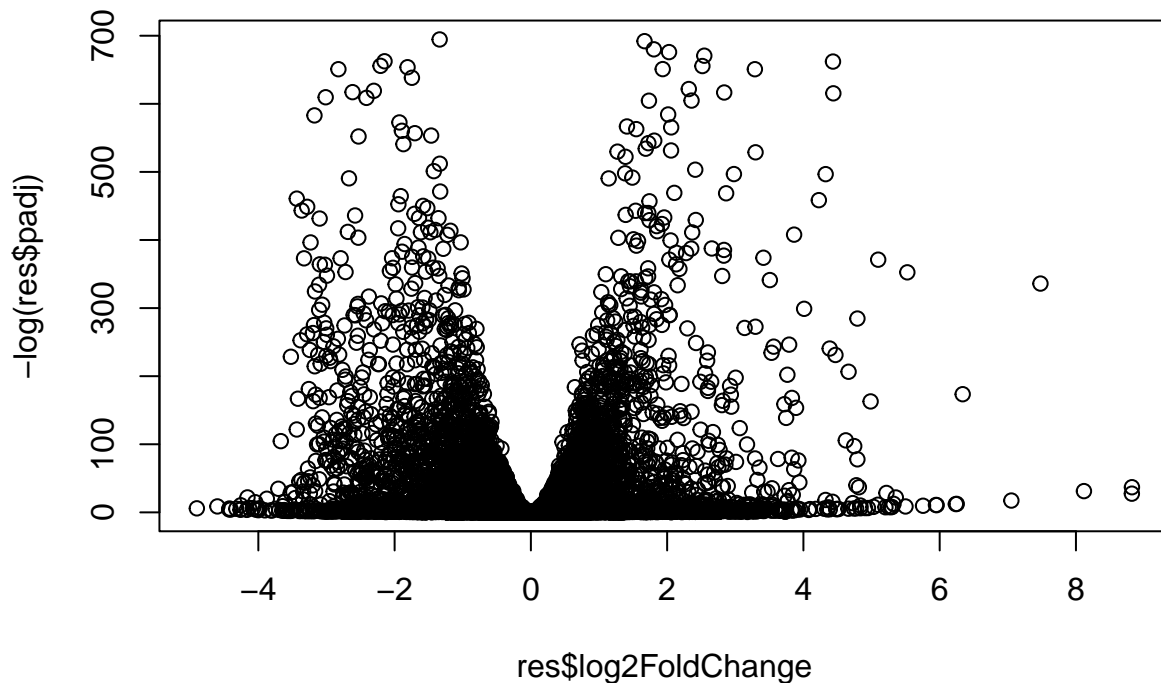
```
res = results(dds, contrast=c("condition", "hoxa1_kd", "control_sirna"))
```

Q3. Call the `summary()` function on your results to get a sense of how many genes are up or down-regulated at the default 0.1 p-value cutoff. 27% are upregulated and 28% are downregulated

```
summary(res)
```

```
##
## out of 15975 with nonzero total read count
## adjusted p-value < 0.1
## LFC > 0 (up)      : 4349, 27%
## LFC < 0 (down)    : 4396, 28%
## outliers [1]      : 0, 0%
## low counts [2]    : 1237, 7.7%
## (mean count < 0)
## [1] see 'cooksCutoff' argument of ?results
## [2] see 'independentFiltering' argument of ?results
```

```
#Make a volcano plot
plot( res$log2FoldChange, -log(res$padj) )
```



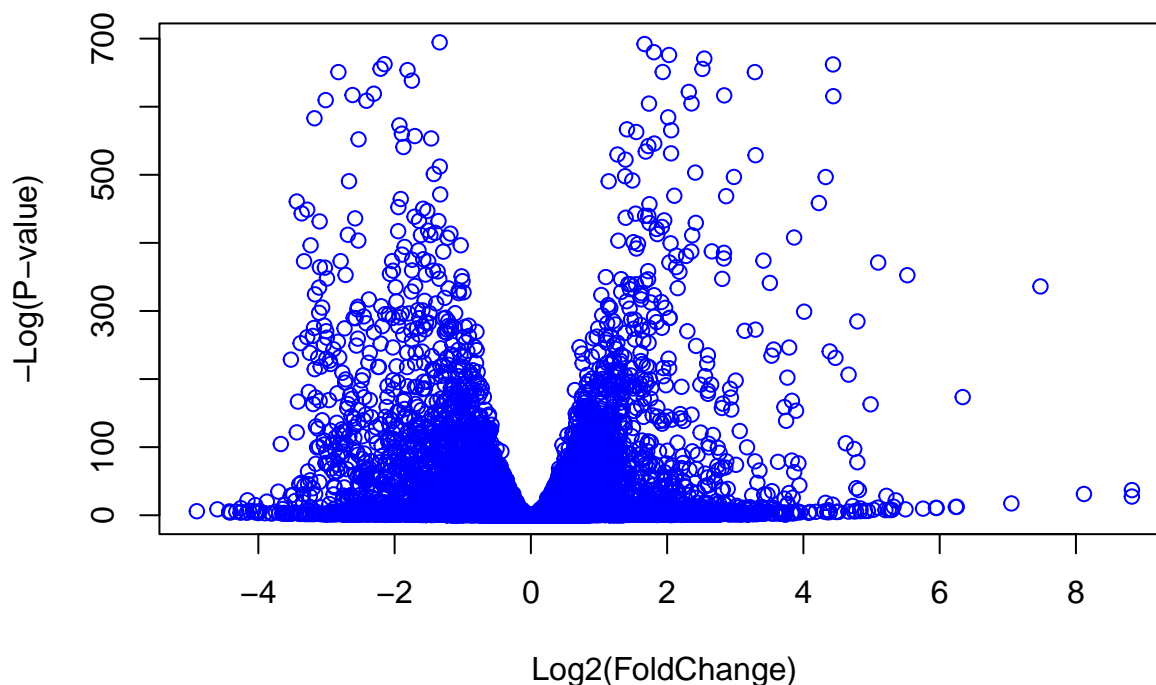
> Q4. Improve this plot by completing the below code, which adds color and axis labels

```
# Make a color vector for all genes
mycols <- rep("gray", nrow(res) )

# Color red the genes with absolute fold change above 2
mycols[ abs(res$log2FoldChange) > 2 ] <- "red"

# Color blue those with adjusted p-value less than 0.01
# and absolute fold change more than 2
inds <- (res$padj < 0.01 ) & (abs(res$log2FoldChange) > 2 )
mycols[ inds ] <- "blue"

plot( res$log2FoldChange, -log(res$padj), col="blue", xlab="Log2(FoldChange)", ylab="-Log(P-value)" )
```



Adding Gene Annotation

Q5. Use the `mapIds()` function multiple times to add SYMBOL, ENTREZID and GENENAME annotation to our results by completing the code below.

```
library("AnnotationDbi")
library("org.Hs.eg.db")
```

```
##
```

```
columns(org.Hs.eg.db)
```

```
## [1] "ACCNUM"      "ALIAS"       "ENSEMBL"     "ENSEMBLPROT" "ENSEMBLTRANS"
## [6] "ENTREZID"    "ENZYME"      "EVIDENCE"    "EVIDENCEALL"  "GENENAME"
## [11] "GENETYPE"    "GO"          "GOALL"       "IPI"          "MAP"
## [16] "OMIM"        "ONTOLOGY"    "ONTOLOGYALL" "PATH"         "PFAM"
## [21] "PMID"        "PROSITE"     "REFSEQ"      "SYMBOL"       "UCSCKG"
## [26] "UNIPROT"
```

```
res$symbol = mapIds(org.Hs.eg.db,
                    keys=row.names(res),
                    keytype="ENSEMBL",
                    column="SYMBOL",
                    multiVals="first")
```

```
## 'select()' returned 1:many mapping between keys and columns
```

```
res$entrez = mapIds(org.Hs.eg.db,  
                    keys=row.names(res),  
                    keytype="ENSEMBL",  
                    column="ENTREZID",  
                    multiVals="first")
```

```
## 'select()' returned 1:many mapping between keys and columns
```

```
res$name = mapIds(org.Hs.eg.db,  
                  keys=row.names(res),  
                  keytype="ENSEMBL",  
                  column="GENENAME",  
                  multiVals="first")
```

```
## 'select()' returned 1:many mapping between keys and columns
```

```
head(res, 10)
```

```
## log2 fold change (MLE): condition hoxa1_kd vs control_sirna
```

```
## Wald test p-value: condition hoxa1 kd vs control sirna
```

```
## DataFrame with 10 rows and 9 columns
```

```
##           baseMean log2FoldChange      lfcSE      stat      pvalue  
##           <numeric>      <numeric> <numeric> <numeric> <numeric>  
## ENSG00000279457    29.913579      0.1792571 0.3248216    0.551863 5.81042e-01  
## ENSG00000187634   183.229650      0.4264571 0.1402658    3.040350 2.36304e-03  
## ENSG00000188976  1651.188076     -0.6927205 0.0548465   -12.630158 1.43990e-36  
## ENSG00000187961   209.637938      0.7297556 0.1318599    5.534326 3.12428e-08  
## ENSG00000187583    47.255123      0.0405765 0.2718928    0.149237 8.81366e-01  
## ENSG00000187642    11.979750      0.5428105 0.5215598    1.040744 2.97994e-01  
## ENSG00000188290   108.922128      2.0570638 0.1969053   10.446970 1.51282e-25  
## ENSG00000187608   350.716868      0.2573837 0.1027266    2.505522 1.22271e-02  
## ENSG00000188157   9128.439422      0.3899088 0.0467163    8.346304 7.04321e-17  
## ENSG00000237330     0.158192      0.7859552 4.0804729    0.192614 8.47261e-01  
##           padj      symbol      entrez      name  
##           <numeric> <character> <character> <character>  
## ENSG00000279457 6.86555e-01    WASH9P    102723897 WAS protein family h..  
## ENSG00000187634 5.15718e-03    SAMD11     148398 sterile alpha motif ..  
## ENSG00000188976 1.76549e-35    NOC2L      26155 NOC2 like nucleolar ..  
## ENSG00000187961 1.13413e-07    KLHL17     339451 kelch like family me..  
## ENSG00000187583 9.19031e-01    PLEKHN1     84069 pleckstrin homology ..  
## ENSG00000187642 4.03379e-01    PERM1      84808 PPARGC1 and ESRR ind..  
## ENSG00000188290 1.30538e-24    HES4       57801 hes family bHLH tran..  
## ENSG00000187608 2.37452e-02    ISG15      9636 ISG15 ubiquitin like..  
## ENSG00000188157 4.21963e-16    AGRN       375790      agrin  
## ENSG00000237330      NA      RNF223    401934 ring finger protein ..
```

Q6. Finally for this section let's reorder these results by adjusted p-value and save them to a CSV file in your current project directory.

```
res = res[order(res$pvalue),]
write.csv(res,"deseq_results.csv")
```

## Section 2. Pathway Analysis

```
library(pathview)
```

```
## #####
## Pathview is an open source software package distributed under GNU General
## Public License version 3 (GPLv3). Details of GPLv3 is available at
## http://www.gnu.org/licenses/gpl-3.0.html. Particullary, users are required to
## formally cite the original Pathview paper (not just mention it) in publications
## or products. For details, do citation("pathview") within R.
##
## The pathview downloads and uses KEGG data. Non-academic uses may require a KEGG
## license agreement (details at http://www.kegg.jp/kegg/legal.html).
## #####
```

```
library(gage)
```

```
##
```

```
library(gageData)
```

```
data(kegg.sets.hs)
data(sigmet.idx.hs)
```

```
# Focus on signaling and metabolic pathways only
kegg.sets.hs = kegg.sets.hs[sigmet.idx.hs]
```

```
# Examine the first 3 pathways
head(kegg.sets.hs, 3)
```

```
## $'hsa00232 Caffeine metabolism'
## [1] "10" "1544" "1548" "1549" "1553" "7498" "9"
##
## $'hsa00983 Drug metabolism - other enzymes'
## [1] "10" "1066" "10720" "10941" "151531" "1548" "1549" "1551"
## [9] "1553" "1576" "1577" "1806" "1807" "1890" "221223" "2990"
## [17] "3251" "3614" "3615" "3704" "51733" "54490" "54575" "54576"
## [25] "54577" "54578" "54579" "54600" "54657" "54658" "54659" "54963"
## [33] "574537" "64816" "7083" "7084" "7172" "7363" "7364" "7365"
## [41] "7366" "7367" "7371" "7372" "7378" "7498" "79799" "83549"
## [49] "8824" "8833" "9" "978"
##
## $'hsa00230 Purine metabolism'
## [1] "100" "10201" "10606" "10621" "10622" "10623" "107" "10714"
## [9] "108" "10846" "109" "111" "11128" "11164" "112" "113"
```

```
## [17] "114"      "115"      "122481"   "122622"   "124583"   "132"      "158"      "159"
## [25] "1633"     "171568"   "1716"     "196883"   "203"      "204"      "205"      "221823"
## [33] "2272"     "22978"    "23649"    "246721"   "25885"    "2618"     "26289"    "270"
## [41] "271"      "27115"    "272"      "2766"     "2977"     "2982"     "2983"     "2984"
## [49] "2986"     "2987"     "29922"    "3000"     "30833"    "30834"    "318"      "3251"
## [57] "353"      "3614"     "3615"     "3704"     "377841"   "471"      "4830"     "4831"
## [65] "4832"     "4833"     "4860"     "4881"     "4882"     "4907"     "50484"    "50940"
## [73] "51082"    "51251"    "51292"    "5136"     "5137"     "5138"     "5139"     "5140"
## [81] "5141"     "5142"     "5143"     "5144"     "5145"     "5146"     "5147"     "5148"
## [89] "5149"     "5150"     "5151"     "5152"     "5153"     "5158"     "5167"     "5169"
## [97] "51728"    "5198"     "5236"     "5313"     "5315"     "53343"    "54107"    "5422"
## [105] "5424"     "5425"     "5426"     "5427"     "5430"     "5431"     "5432"     "5433"
## [113] "5434"     "5435"     "5436"     "5437"     "5438"     "5439"     "5440"     "5441"
## [121] "5471"     "548644"   "55276"    "5557"     "5558"     "55703"    "55811"    "55821"
## [129] "5631"     "5634"     "56655"    "56953"    "56985"    "57804"    "58497"    "6240"
## [137] "6241"     "64425"    "646625"   "654364"   "661"      "7498"     "8382"     "84172"
## [145] "84265"    "84284"    "84618"    "8622"     "8654"     "87178"    "8833"     "9060"
## [153] "9061"     "93034"    "953"      "9533"     "954"      "955"      "956"      "957"
## [161] "9583"     "9615"
```

```
foldchanges = res$log2FoldChange
names(foldchanges) = res$entrez
head(foldchanges)
```

```
##      1266      54855      1465      51232      2034      2317
## -2.422719  3.201955 -2.313738 -2.059631 -1.888019 -1.649792
```

```
# Get the results
keggres = gage(foldchanges, gsets=kegg.sets.hs)
```

```
attributes(keggres)
```

```
## $names
## [1] "greater" "less"    "stats"
```

```
# Look at the first few down (less) pathways
head(keggres$less)
```

```
##                p.geomean stat.mean          p.val
## hsa04110 Cell cycle      8.995727e-06 -4.378644 8.995727e-06
## hsa03030 DNA replication  9.424076e-05 -3.951803 9.424076e-05
## hsa03013 RNA transport   1.375901e-03 -3.028500 1.375901e-03
## hsa03440 Homologous recombination 3.066756e-03 -2.852899 3.066756e-03
## hsa04114 Oocyte meiosis   3.784520e-03 -2.698128 3.784520e-03
## hsa00010 Glycolysis / Gluconeogenesis 8.961413e-03 -2.405398 8.961413e-03
##                q.val set.size          exp1
## hsa04110 Cell cycle      0.001448312      121 8.995727e-06
## hsa03030 DNA replication  0.007586381       36 9.424076e-05
## hsa03013 RNA transport   0.073840037      144 1.375901e-03
## hsa03440 Homologous recombination 0.121861535       28 3.066756e-03
## hsa04114 Oocyte meiosis   0.121861535      102 3.784520e-03
## hsa00010 Glycolysis / Gluconeogenesis 0.212222694       53 8.961413e-03
```

```
pathview(gene.data=foldchanges, pathway.id="hsa04110")
```

```
## 'select()' returned 1:1 mapping between keys and columns
```

```
## Info: Working in directory C:/Users/belia/OneDrive/Desktop/BIMM143/MiniProject_RNASeq
```

```
## Info: Writing image file hsa04110.pathview.png
```

```
# A different PDF based output of the same data
```

```
pathview(gene.data=foldchanges, pathway.id="hsa04110", kegg.native=FALSE)
```

```
## 'select()' returned 1:1 mapping between keys and columns
```

```
## Info: Working in directory C:/Users/belia/OneDrive/Desktop/BIMM143/MiniProject_RNASeq
```

```
## Info: Writing image file hsa04110.pathview.pdf
```

```
## Focus on top 5 upregulated pathways here for demo purposes only
```

```
keggrespathways <- rownames(keggres$greater)[1:5]
```

```
# Extract the 8 character long IDs part of each string
```

```
keggresids = substr(keggrespathways, start=1, stop=8)
```

```
keggresids
```

```
## [1] "hsa04640" "hsa04630" "hsa00140" "hsa04142" "hsa04330"
```

```
pathview(gene.data=foldchanges, pathway.id=keggresids, species="hsa")
```

```
## 'select()' returned 1:1 mapping between keys and columns
```

```
## Info: Working in directory C:/Users/belia/OneDrive/Desktop/BIMM143/MiniProject_RNASeq
```

```
## Info: Writing image file hsa04640.pathview.png
```

```
## 'select()' returned 1:1 mapping between keys and columns
```

```
## Info: Working in directory C:/Users/belia/OneDrive/Desktop/BIMM143/MiniProject_RNASeq
```

```
## Info: Writing image file hsa04630.pathview.png
```

```
## 'select()' returned 1:1 mapping between keys and columns
```

```
## Info: Working in directory C:/Users/belia/OneDrive/Desktop/BIMM143/MiniProject_RNASeq
```

```
## Info: Writing image file hsa00140.pathview.png
```

```
## 'select()' returned 1:1 mapping between keys and columns
```

```
## Info: Working in directory C:/Users/belia/OneDrive/Desktop/BIMM143/MiniProject_RNASeq
## Info: Writing image file hsa04142.pathview.png
## Info: some node width is different from others, and hence adjusted!
## 'select()' returned 1:1 mapping between keys and columns
## Info: Working in directory C:/Users/belia/OneDrive/Desktop/BIMM143/MiniProject_RNASeq
## Info: Writing image file hsa04330.pathview.png
```

Q7. Can you do the same procedure as above to plot the pathview figures for the top 5 down-regulated pathways?

```
## Focus on top 5 downregulated pathways here for demo purposes only
keggrespathways <- rownames(keggres$less)[1:5]
```

```
# Extract the 8 character long IDs part of each string
keggresids = substr(keggrespathways, start=1, stop=8)
keggresids
```

```
## [1] "hsa04110" "hsa03030" "hsa03013" "hsa03440" "hsa04114"
```

```
pathview(gene.data=foldchanges, pathway.id=keggresids, species="hsa")
```

```
## 'select()' returned 1:1 mapping between keys and columns
## Info: Working in directory C:/Users/belia/OneDrive/Desktop/BIMM143/MiniProject_RNASeq
## Info: Writing image file hsa04110.pathview.png
## 'select()' returned 1:1 mapping between keys and columns
## Info: Working in directory C:/Users/belia/OneDrive/Desktop/BIMM143/MiniProject_RNASeq
## Info: Writing image file hsa03030.pathview.png
## 'select()' returned 1:1 mapping between keys and columns
## Info: Working in directory C:/Users/belia/OneDrive/Desktop/BIMM143/MiniProject_RNASeq
## Info: Writing image file hsa03013.pathview.png
## 'select()' returned 1:1 mapping between keys and columns
## Info: Working in directory C:/Users/belia/OneDrive/Desktop/BIMM143/MiniProject_RNASeq
## Info: Writing image file hsa03440.pathview.png
## 'select()' returned 1:1 mapping between keys and columns
## Info: Working in directory C:/Users/belia/OneDrive/Desktop/BIMM143/MiniProject_RNASeq
## Info: Writing image file hsa04114.pathview.png
```



## Section 3. Gene Ontology

```
#Contains all GO terms
data(go.sets.hs)
#Named list containing indexes for BP, CC, MF ontologies
data(go.subs.hs)

# Focus on Biological Process subset of GO
gobpsets = go.sets.hs[go.subs.hs$BP]

gobpres = gage(foldchanges, gsets=gobpsets, same.dir=TRUE)

lapply(gobpres, head)

## $greater
##
##          p.geomean stat.mean      p.val
## GO:0007156 homophilic cell adhesion 8.519724e-05 3.824205 8.519724e-05
## GO:0002009 morphogenesis of an epithelium 1.396681e-04 3.653886 1.396681e-04
## GO:0048729 tissue morphogenesis 1.432451e-04 3.643242 1.432451e-04
## GO:0007610 behavior 2.195494e-04 3.530241 2.195494e-04
## GO:0060562 epithelial tube morphogenesis 5.932837e-04 3.261376 5.932837e-04
## GO:0035295 tube development 5.953254e-04 3.253665 5.953254e-04
##          q.val set.size      exp1
## GO:0007156 homophilic cell adhesion 0.1951953 113 8.519724e-05
## GO:0002009 morphogenesis of an epithelium 0.1951953 339 1.396681e-04
## GO:0048729 tissue morphogenesis 0.1951953 424 1.432451e-04
## GO:0007610 behavior 0.2243795 427 2.195494e-04
## GO:0060562 epithelial tube morphogenesis 0.3711390 257 5.932837e-04
## GO:0035295 tube development 0.3711390 391 5.953254e-04
##
## $less
##
##          p.geomean stat.mean      p.val
## GO:0048285 organelle fission 1.536227e-15 -8.063910 1.536227e-15
## GO:0000280 nuclear division 4.286961e-15 -7.939217 4.286961e-15
## GO:0007067 mitosis 4.286961e-15 -7.939217 4.286961e-15
## GO:0000087 M phase of mitotic cell cycle 1.169934e-14 -7.797496 1.169934e-14
## GO:0007059 chromosome segregation 2.028624e-11 -6.878340 2.028624e-11
## GO:0000236 mitotic prometaphase 1.729553e-10 -6.695966 1.729553e-10
##          q.val set.size      exp1
## GO:0048285 organelle fission 5.841698e-12 376 1.536227e-15
## GO:0000280 nuclear division 5.841698e-12 352 4.286961e-15
## GO:0007067 mitosis 5.841698e-12 352 4.286961e-15
## GO:0000087 M phase of mitotic cell cycle 1.195672e-11 362 1.169934e-14
## GO:0007059 chromosome segregation 1.658603e-08 142 2.028624e-11
## GO:0000236 mitotic prometaphase 1.178402e-07 84 1.729553e-10
##
## $stats
##
##          stat.mean      exp1
## GO:0007156 homophilic cell adhesion 3.824205 3.824205
## GO:0002009 morphogenesis of an epithelium 3.653886 3.653886
## GO:0048729 tissue morphogenesis 3.643242 3.643242
## GO:0007610 behavior 3.530241 3.530241
```

```
## GO:0060562 epithelial tube morphogenesis 3.261376 3.261376
## GO:0035295 tube development 3.253665 3.253665
```

## Section 4. Reactome Analysis

Reactome: a db of biological molescs and their relation to pathways and processes

```
#output list of alpha=.05 significant genes as a plain text file
sig_genes <- res[res$padj <= 0.05 & !is.na(res$padj), "symbol"]
print(paste("Total number of significant genes:", length(sig_genes)))
```

```
## [1] "Total number of significant genes: 8147"
```

```
write.table(sig_genes, file="significant_genes.txt", row.names=FALSE, col.names=FALSE, quote=FALSE)
```

Do pathway analysis online at the Reactome site

Q8: What pathway has the most significant “Entities p-value”? Do the most significant pathways listed match your previous KEGG results? What factors could cause differences between the two methods? The Endosomal/Vacuolar pathway has the most significant entities p-value. The most significant listed pathways are somewhat similar to the KEGG results but not too close. Many factors could account for the difference such as sources of data, significance procedures, etc.

### #Section 5. GO Online

Q9: What pathway has the most significant “Entities p-value”? Do the most significant pathways listed match your previous KEGG results? What factors could cause differences between the two methods? I was not able to locate an entities p value on the GO site. The most significant raw P value was attributed to “detection of chemical stimulus involved in sensory perception.”