

May 4, 2021 - We are working on upgrading the webserver, some pages may not work.

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Gene pairs predicted to be in contact

Note: *E. coli* gene names listed are "representatives" of each cluster and may represent multiple different interactors in *E. coli*.
PDB: If all highlighted this means there is a PDB for both gene families and a PDB of both of them in complex.

Results from *E. coli* [single gene](#) intra predictions.

When experimenting with clustering parameters, we generated some [redundant data](#) that might be useful.

For definition of the score values, please see our [FAQ page](#).

ID	gene_a	gene_b	Length	Sequences	Seq/Len	S_sco	I_Prob	PDB
P03959_P03961	ATKA	ATKC	747	523	0.70	4.33	1.00	
POABW9_POABX2	FLGB	FLGC	272	650	2.42	3.75	1.00	
P42910_P42911	PTPC1	PTPD	530	635	1.25	3.71	1.00	
POAFAE0_POAFAE4	NUOJ	NUOK	284	1009	3.75	3.65	1.00	
P00903_P05041	PABA	PABB	640	1204	1.92	3.57	1.00	
P21156_P23845	CYSD	CYSN	777	638	0.87	3.51	1.00	
P04152_POAG11	UMUC	UMUD	561	572	1.04	3.44	1.00	
P37674_P37675	YIAM	YIAN	582	2198	3.91	3.42	1.00	
P14175_P14176	PROV	PROW	754	527	0.79	3.23	1.00	
P60632_POAD19	YOHJ	YOHK	363	649	1.91	3.20	1.00	
P07363_POA964	CHEA	CHEW	821	1084	1.37	3.10	1.00	
Q46907_Q46908	YGCQ	YGCR	545	1223	2.48	3.07	1.00	
P77308_P77463	DDPB	DDPC	638	5194	8.71	3.04	1.00	
P04983_POAG11	RBSA	RBSC	822	4422	5.58	3.01	1.00	
POAB98_POABA0	ATP6	ATPF	427	929	2.27	3.00	1.00	
P26458_P26459	APPB	APPC	892	1033	1.21	2.97	1.00	
P77795_POAFR9	YDCT	YDCV	601	6579	11.46	2.95	1.00	
POA6S0_POA6S3	FLGH	FLGI	597	369	0.64	2.89	0.99	
POA9X4_POACD4	MREB	NIFU	475	288	0.65	2.67	0.97	
POABI8_POABJ3	CYOB	CYOC	867	1336	1.67	2.67	0.99	
P00934_POA877	THRC	TRPA	696	1052	1.72	2.61	0.99	
P32714_P32716	MDTP	MDTN	831	1887	2.40	2.60	1.00	
POA809_POA812	RUVA	RUVB	539	927	1.74	2.59	0.99	
P62672_POA9L5	APAG	PPIC	218	166	0.79	2.57	0.97	
Q46800_Q46801	XDHB	XDHC	451	1493	3.45	2.57	1.00	
POA877_POA879	TRPA	TRPB	665	1081	1.66	2.54	0.99	
POAC05_POAC07	FLIP	FLIQ	334	695	2.22	2.51	0.99	
P69346_P69348	YEFM	YOEB	167	268	1.60	2.47	0.99	
P08312_P07395	SYFA	SYFB	1122	1139	1.02	2.47	0.97	
P32716_P32714	MDTN	MDTP	831	1916	2.45	2.46	0.99	
P76299_P33135	FLHB	FLIR	643	691	1.10	2.45	0.98	
POABM1_P69490	CCMC	CCME	404	311	0.82	2.43	0.95	
POAFC3_POAFAE0	NUOA	NUOJ	331	762	2.65	2.42	0.99	
P45530_P45532	TUSB	TUSD	223	210	0.94	2.42	0.96	
P41442_P45760	GSPG	GSPI	270	203	0.79	2.41	0.94	
P77374_POAAJ1	YNFE	YNFG	1013	667	0.67	2.40	0.92	
POA9N4_P09373	PFLA	PFLB	1006	689	0.70	2.39	0.92	
P37675_P37676	YIAN	YIAO	753	2567	3.56	2.37	0.99	
POA6F1_P00968	CARA	CARB	1455	868	0.60	2.35	0.87	
Q46799_Q46801	XDHA	XDHC	911	1544	1.72	2.35	0.99	

<u>POAEL3_P33650</u>	FEOA	FEOB	848	681	0.86	2.33	0.94
<u>POAFD4_POAFAE0</u>	NUOH	NUOJ	509	946	1.97	2.32	0.99
<u>P24182_P0ABD8</u>	ACCC	BCCP	605	905	1.51	2.30	0.98
<u>POA8Q6_P0A8P1</u>	CLPS	LFTR	340	222	0.67	2.25	0.83
<u>POA836_P0AGE9</u>	SUCC	SUCD	677	817	1.21	2.22	0.95
<u>P69054_P0AC44</u>	DHSC	DHSD	244	219	0.90	2.17	0.87
<u>POA6G7_P0A6H1</u>	CLPP	CLPX	631	793	1.31	2.16	0.95
<u>POA7E9_P0ADE4</u>	PYRH	TAMA	818	516	0.69	2.16	0.74
<u>POAAK7_P32709</u>	NRFC	NRFD	541	649	1.23	2.14	0.93
<u>P77252_P77536</u>	YKGE	YKGF	714	463	0.65	2.14	0.69
<u>P69829_P0A9W6</u>	PTSN	YRBA	247	146	0.63	2.13	0.65
<u>POA6P7_P0A763</u>	ENGB	NDK	353	304	0.97	2.13	0.87
<u>P76459_P76458</u>	ATOA	ATOD	436	907	2.12	2.13	0.98
<u>POA9R4_P0A6L9</u>	FER	HSCB	282	243	0.86	2.10	0.80
<u>P19768_P75680</u>	INSJ	INSO1	314	251	0.84	2.10	0.79
<u>POA6D0_P0A7E9</u>	ARGR	PYRH	397	225	0.61	2.09	0.53
<u>POABL8_P69490</u>	CCMB	CCME	379	231	0.63	2.08	0.55
<u>P64604_P64606</u>	MLAD	MLAE	443	572	1.39	2.06	0.93
<u>POAFD6_P0AFE4</u>	NUOI	NUOK	280	225	0.81	2.04	0.68
<u>P31547_P28635</u>	METI	METQ	488	1158	2.44	2.04	0.97
<u>P69824_P0A894</u>	PTMA	YHBJ	431	264	0.62	2.03	0.42
<u>P30139_O32583</u>	THIG	THIS	322	690	2.16	2.02	0.97
<u>P00547_P61320</u>	KHSE	LOLB	517	285	0.64	2.02	0.44
<u>POAAV4_P75745</u>	YBGJ	YBGK	528	715	1.38	2.02	0.91
<u>P00960_P00961</u>	SYGA	SYGB	992	639	0.65	2.00	0.42
<u>P33235_P29744</u>	FLGK	FLGL	864	747	0.87	1.99	0.65
<u>POA9R4_P0AGK8</u>	FER	ISCR	273	169	0.66	1.99	0.40
<u>P69222_P0AGA2</u>	IF1	SECY	515	691	1.39	1.99	0.89
<u>P33931_POABL8</u>	CCMA	CCMB	427	553	1.31	1.98	0.87
<u>P76278_POAA57</u>	YEBZ	YOBA	414	287	0.71	1.97	0.43
<u>P28722_P45420</u>	YHCA	YHCD	1017	859	0.89	1.97	0.63
<u>POA8Q6_P0A968</u>	CLPS	CSPD	180	140	0.80	1.97	0.54
<u>POA6A8_P28630</u>	ACP	HOLA	421	242	0.62	1.96	0.29
<u>POAA53_POAAS3</u>	QMCA	YBBJ	457	684	1.54	1.96	0.91
<u>P32710_P32711</u>	NRFE	NRFF	679	407	0.61	1.96	0.27
<u>P75933_POABX2</u>	FLGA	FLGC	353	292	0.84	1.96	0.57
<u>POA9R4_P0ACD4</u>	FER	NIFU	239	169	0.71	1.95	0.39
<u>POAC05_P33135</u>	FLIP	FLIR	506	721	1.50	1.95	0.90
<u>POABL8_POABM1</u>	CCMB	CCMC	465	374	0.82	1.95	0.52
<u>P64604_P0A9W6</u>	MLAD	YRBA	267	210	0.84	1.94	0.53
<u>P21645_P0A805</u>	LPXD	RRF	526	333	0.64	1.94	0.26
<u>P37655_P52140</u>	BCSQ	YFYJ	410	302	0.80	1.94	0.47
<u>P27300_POAAZ7</u>	LPXK	YCAR	388	302	0.79	1.93	0.45
<u>P77774_POA6P7</u>	BAMB	ENGB	602	431	0.79	1.93	0.44
<u>POA6A6_P30126</u>	LEUC	LEUD	667	850	1.28	1.93	0.82
<u>POA6A8_P0AB28</u>	ACP	YCED	251	217	0.87	1.93	0.53
<u>POABR5_Q47140</u>	HCAE	HCAF	625	424	0.71	1.93	0.34
<u>P05847_POAC35</u>	TTDA	TTDB	504	388	0.81	1.92	0.44
<u>POAFX0_P0A9W6</u>	HPF	YRBA	179	127	0.71	1.91	0.30
<u>P64602_P0A9N0</u>	MLAB	PTSO	187	111	0.60	1.91	0.17
<u>POA937_P52119</u>	BAME	RATB	209	179	0.87	1.91	0.49
<u>POABM5_P32711</u>	CCMD	NRFF	196	180	0.96	1.91	0.58

<u>P30748_P30749</u>	MOAD	MOAE	231	575	2.53	1.90	0.96
<u>P77179_P77285</u>	RNFE	RNFG	437	731	1.76	1.89	0.90
<u>POABX8_P0AC05</u>	FLIL	FLIP	399	268	0.72	1.89	0.26
<u>POAE52_P32711</u>	BCP	NRFF	283	360	1.44	1.89	0.83
<u>POABZ4_P0ADV1</u>	KDSC	LPTA	373	233	0.69	1.88	0.21
<u>POA8T5_P52613</u>	FLIE	FLIJ	251	251	1.01	1.88	0.57
<u>POAFX0_P0ADV9</u>	HPF	LPTC	286	206	0.73	1.88	0.26
<u>POA805_P0ADE4</u>	RRF	TAMA	762	444	0.64	1.87	0.15
<u>POABM5_P32712</u>	CCMD	NRFG	267	183	0.72	1.87	0.23
<u>P33647_P08365</u>	CHPB	CHPS	199	190	0.97	1.87	0.51
<u>POA968_P69222</u>	CSPD	IF1	146	107	0.76	1.86	0.25
<u>POAEU7_P0ADE4</u>	SKP	TAMA	738	415	0.61	1.85	0.11
<u>Q47150_Q47149</u>	DINJ	YAFQ	178	223	1.28	1.85	0.73
<u>POA6W5_P0AGK4</u>	GREA	YHBY	255	210	0.82	1.85	0.32
<u>P76182_P77179</u>	RNFD	RNFE	583	693	1.24	1.84	0.70
<u>P25798_P0ABZ1</u>	FLIF	FLIG	883	550	0.64	1.84	0.11
<u>POABG1_P0AEH1</u>	CDSA	RSEP	735	721	1.01	1.84	0.50
<u>P23484_P23485</u>	FECI	FEGR	490	1539	3.30	1.84	0.96
<u>P52613_P0ABX8</u>	FLIJ	FLIL	301	216	0.73	1.84	0.19
<u>POADV1_P69829</u>	LPTA	PTSN	348	209	0.67	1.84	0.13
<u>P50465_P75811</u>	END8	YBJK	441	270	0.62	1.83	0.09
<u>P30140_O32583</u>	THIH	THIS	443	276	0.63	1.83	0.09
<u>POADV1_P0ADV9</u>	LPTA	LPTC	376	242	0.70	1.82	0.13
<u>POAFX0_P28369</u>	HPF	RFH	261	193	0.75	1.82	0.17
<u>P10442_P0A9W9</u>	RNH2	YRDA	382	233	0.71	1.82	0.14
<u>POA6M8_P0CE47</u>	EFG	EFTU1	1098	689	0.63	1.82	0.08
<u>POA6L9_P0AGK8</u>	HSCB	ISCR	333	209	0.67	1.81	0.10
<u>POAG86_P0AG27</u>	SECB	YIBN	298	255	0.88	1.81	0.29
<u>POAG90_P0ADZ7</u>	SECD	YAJC	725	471	0.65	1.81	0.08
<u>POAC02_P0AA43</u>	BAMD	RSUA	476	310	0.69	1.80	0.11
<u>POABA0_Q46810</u>	ATPF	MOCA	348	211	0.62	1.80	0.06
<u>POABU9_P45955</u>	TOLQ	YBGF	493	291	0.60	1.80	0.06
<u>P03004_P0A7Y8</u>	DNAA	RNPA	586	370	0.65	1.80	0.08
<u>POA8T5_P22586</u>	FLIE	FLIO	225	143	0.66	1.80	0.08
<u>POA6E6_P0AG30</u>	ATPE	RHO	558	271	0.61	1.80	0.06
<u>P36548_P0AF67</u>	AMIA	YJEE	442	276	0.74	1.80	0.13
<u>P37655_P25522</u>	BCSQ	MNME	704	512	0.74	1.80	0.14
<u>POA6J8_P30128</u>	DDLA	GREB	522	304	0.65	1.79	0.07
<u>POABJ3_P0AFE4</u>	CYOC	NUOK	304	1021	3.78	1.79	0.96
<u>POA9R4_P0AAC8</u>	FER	ISCA	218	202	0.93	1.79	0.30
<u>P06616_P0A898</u>	ERA	YBEY	456	395	0.91	1.79	0.27
<u>P76078_P76079</u>	PAAB	PAAC	343	224	0.66	1.78	0.07
<u>P75767_P0A894</u>	YBHK	YHBJ	586	398	0.70	1.78	0.08
<u>POA8A8_P0A805</u>	RIMP	RRF	335	204	0.61	1.78	0.04
<u>POA8T5_P15070</u>	FLIE	FLIN	241	146	0.61	1.77	0.04
<u>POAEQ6_P33360</u>	GLNP	YEHX	527	4951	10.88	1.77	0.96
<u>POACE7_P00903</u>	HINT	PABA	306	287	0.96	1.76	0.26
<u>POABN1_P0A7H3</u>	KDGL	RECO	364	228	0.66	1.76	0.05
<u>P76079_P0ABW3</u>	PAAC	YFAE	332	231	0.70	1.75	0.07
<u>POACD4_P0AGJ7</u>	NIFU	TRML	285	177	0.65	1.75	0.04
<u>P75936_P75937</u>	FLGD	FLGE	633	388	0.64	1.75	0.04
<u>P39265_P0A8R0</u>	ALSB	RRAA	472	263	0.60	1.75	0.03

<u>POA7A5_Q46798</u>	PIMT	YGER	459	362	0.82	1.75	0.13
<u>POA7Z4_POAGA2</u>	RPOA	SECY	772	923	1.22	1.74	0.48
<u>POAFC3_POAFD6</u>	NUOA	NUOI	327	227	0.74	1.74	0.08
<u>POA9Q5_P08192</u>	ACCD	FOLC	726	486	0.70	1.74	0.06
<u>P19624_P06992</u>	PDXA	RSMA	602	418	0.71	1.74	0.06
<u>P75806_P75811</u>	YBJG	YBJK	376	213	0.60	1.74	0.03
<u>P45465_P64596</u>	YRAN	YRAP	322	292	0.96	1.73	0.22
<u>P64602_POA9W6</u>	MLAB	YRBA	181	130	0.72	1.73	0.06
<u>POA6Q6_P0A805</u>	FABZ	RRF	336	332	1.01	1.73	0.26
<u>POA6K3_P30852</u>	DEF	SMF	543	356	0.67	1.73	0.04
<u>POA6A8_P77712</u>	ACP	FADM	210	192	0.93	1.73	0.18
<u>POAAT6_POAGK4</u>	IOJAP	YHBY	202	249	1.26	1.72	0.47
<u>POABJ3_POABJ6</u>	CYOC	CYOD	313	291	0.93	1.72	0.17
<u>POAC13_POA6W5</u>	DHPS	GREA	440	295	0.68	1.72	0.04
<u>POA912_POA8Z3</u>	PAL	YBGC	307	188	0.63	1.72	0.02
<u>P52613_P22586</u>	FLIJ	FLIO	268	160	0.62	1.72	0.02
<u>POABG1_P21645</u>	CDSA	LPXD	626	401	0.66	1.72	0.03
<u>POA6X1_P09126</u>	HEM1	HEM4	664	460	0.69	1.72	0.04
<u>P76076_P64448</u>	YDBL	YNBE	169	113	0.69	1.72	0.04
<u>POCOL2_POA8W2</u>	OSMC	SLYA	287	441	1.63	1.71	0.69
<u>POACC3_POAGF2</u>	ERPA	YGDK	261	146	0.60	1.71	0.02
<u>POA6X1_P06983</u>	HEM1	HEM3	731	557	0.77	1.71	0.06
<u>P09126_POACB7</u>	HEM4	HEMY	644	416	0.65	1.71	0.03
<u>POABA4_Q46810</u>	ATPD	MOCA	369	249	0.69	1.71	0.03
<u>P05852_P76256</u>	GCP	YEAZ	568	457	0.82	1.71	0.08
<u>P45760_P45761</u>	GSPI	GSPJ	320	217	0.73	1.71	0.05
<u>P45759_P41442</u>	GSPE	GSPG	638	398	0.64	1.71	0.02
<u>POAFX0_POA894</u>	HPF	YHBJ	379	234	0.62	1.70	0.02
<u>POABJ1_POABJ3</u>	CYOA	CYOC	519	310	0.63	1.70	0.02
<u>POAEN1_P76078</u>	FRE	PAAB	328	202	0.63	1.69	0.02
<u>POA6S5_Q46893</u>	FTSB	ISPD	339	233	0.73	1.69	0.04
<u>P10442_POAEU7</u>	RNH2	SKP	359	223	0.64	1.69	0.02
<u>POABV6_P45955</u>	TOLR	YBGF	405	293	0.73	1.69	0.03
<u>POA6Q6_POA7E9</u>	FABZ	PYRH	392	337	0.89	1.68	0.10
<u>POA6E6_POABA6</u>	ATPE	ATPG	426	917	2.16	1.68	0.82
<u>Q46799_Q46800</u>	XDHA	XDHB	1044	1609	1.56	1.68	0.60
<u>P75936_POA6S0</u>	FLGD	FLGH	463	299	0.70	1.68	0.03
<u>P39301_P69820</u>	ULAA	ULAC	619	384	0.67	1.68	0.02
<u>P28905_POAF98</u>	HOLC	LPTF	513	374	0.74	1.68	0.04
<u>POABH0_P09372</u>	FTSA	GRPE	617	341	0.68	1.68	0.02
<u>POA6A8_P28631</u>	ACP	HOLB	412	252	0.62	1.68	0.01
<u>POA9E2_P76011</u>	SOXS	YMGE	191	179	0.96	1.68	0.13
<u>POABZ4_POAA04</u>	KDSC	PTHP	273	162	0.61	1.68	0.01
<u>P36879_POAFN6</u>	YADG	YADH	564	2982	5.44	1.68	0.94
<u>POABX8_P15070</u>	FLIL	FLIN	291	190	0.67	1.67	0.02
<u>P33913_POAFU0</u>	YEJA	YEJB	968	2721	3.14	1.67	0.90
<u>P06974_POAC07</u>	FLIM	FLIQ	423	426	1.04	1.67	0.17
<u>P09348_POAF06</u>	MOTA	MOTB	603	505	0.90	1.67	0.09
<u>POA6P7_P00803</u>	ENGB	LEP	534	291	0.61	1.67	0.01
<u>POABW9_POA6S3</u>	FLGB	FLGI	503	311	0.63	1.66	0.01
<u>P28903_POA9N8</u>	NRDD	NRDG	866	588	0.69	1.66	0.02
<u>POA6L9_POAAC8</u>	HSCB	ISCA	278	239	0.86	1.66	0.06

<u>P06974_P0AC05</u>	FLIM	FLIP	579	442	0.81	1.66	0.04
<u>POADV7_P64606</u>	MLAC	MLAE	471	296	0.63	1.66	0.01
<u>P10441_P0A805</u>	LPXB	RRF	567	370	0.66	1.66	0.01
<u>P77223_P77179</u>	RNFB	RNFE	423	431	1.08	1.66	0.18
<u>POAAV4_P75746</u>	YBGJ	YBGL	462	744	1.63	1.66	0.59
<u>P19624_P0A9L5</u>	PDXA	PPIC	422	354	0.85	1.66	0.06
<u>POA6A8_P0A729</u>	ACP	YCEF	272	273	1.02	1.66	0.14
<u>P76078_P76080</u>	PAAB	PAAD	260	221	0.88	1.66	0.07
<u>POA9N0_P0A9W6</u>	PTSO	YRBA	174	132	0.77	1.65	0.03
<u>POA6L9_P0ACD4</u>	HSCB	NIFU	299	218	0.74	1.65	0.02
<u>POADV9_P69829</u>	LPTC	PTSN	354	220	0.66	1.65	0.01
<u>P75933_P0ABW9</u>	FLGA	FLGB	357	307	0.88	1.65	0.06
<u>POABH0_P0A6W3</u>	FTSA	MRAY	780	639	0.83	1.65	0.04
<u>POA6D7_P64634</u>	AROK	HOFN	352	235	0.69	1.65	0.02
<u>POABM5_P69490</u>	CCMD	CCME	228	177	0.83	1.65	0.04
<u>POA809_P0A8Z3</u>	RUVA	YBGC	337	273	0.82	1.65	0.04
<u>POAAT6_P42641</u>	IOJAP	OBG	495	369	0.84	1.65	0.05
<u>POAEI1_P0A9K3</u>	MIAB	PHOL	820	464	0.61	1.65	0.01
<u>P16686_P16679</u>	PHNH	PHNL	420	258	0.62	1.64	0.01
<u>POABX2_P75937</u>	FLGC	FLGE	536	449	0.84	1.64	0.04
<u>POA794_P0A7Y0</u>	PDXJ	RNC	469	275	0.60	1.64	0.01
<u>POADH5_P23305</u>	FIMB	YIGA	435	281	0.68	1.64	0.01
<u>P76182_P77285</u>	RNFD	RNFG	558	731	1.34	1.64	0.34
<u>POADD2_P0ADD5</u>	YJJB	YJJP	413	447	1.12	1.64	0.17
<u>P69503_P0A6M4</u>	APT	DTD	328	208	0.66	1.64	0.01
<u>P42906_P42912</u>	AGAA	AGAI	418	371	0.94	1.63	0.07
<u>POAEZ3_P0A734</u>	MIND	MINE	358	396	1.12	1.63	0.17
<u>POA707_P0A6X7</u>	IF3	IHFA	279	182	0.69	1.63	0.01
<u>POADC3_P0ADA1</u>	LOLC	TESA	607	514	0.92	1.63	0.06
<u>POAAM3_P24192</u>	HYPC	HYPD	463	429	0.96	1.63	0.08
<u>POA6Q6_P0AEU7</u>	FABZ	SKP	312	244	0.80	1.63	0.03
<u>P18196_P0A734</u>	MINC	MINE	319	470	1.49	1.63	0.43
<u>POA9X4_P0AF63</u>	MREB	NSRR	488	344	0.76	1.63	0.02
<u>POA8T5_P31068</u>	FLIE	FLIH	332	217	0.66	1.63	0.01
<u>POA8T5_P0AC07</u>	FLIE	FLIQ	193	185	0.97	1.63	0.08
<u>P06974_P33135</u>	FLIM	FLIR	595	459	0.79	1.62	0.03
<u>POA855_P0A8Z3</u>	TOLB	YBGC	564	338	0.62	1.62	0.01
<u>POABZ4_P0ADV9</u>	KDSC	LPTC	379	258	0.71	1.62	0.01
<u>P22255_P0AF63</u>	CYSQ	NSRR	387	225	0.60	1.62	0.01
<u>P08337_P0A8H8</u>	MUTT	YACG	194	163	0.85	1.62	0.04
<u>POA855_P0ABV6</u>	TOLB	TOLR	572	501	0.91	1.62	0.05
<u>P45530_P45531</u>	TUSB	TUSC	214	219	1.02	1.62	0.09
<u>POA763_P76576</u>	NDK	YFGM	349	265	0.77	1.62	0.02
<u>POABX2_P75936</u>	FLGC	FLGD	365	316	0.93	1.61	0.06
<u>POA780_P0A7J0</u>	NUSB	RIBB	356	382	1.13	1.61	0.14
<u>POAFG0_P0AG96</u>	NUSG	SECE	308	234	0.77	1.61	0.02
<u>P69222_P0A8P1</u>	IF1	LFTR	306	185	0.61	1.61	0.01
<u>P41443_P45760</u>	GSPH	GSPI	294	187	0.67	1.61	0.01
<u>POAC65_P0A772</u>	NRDH	NRDI	217	166	0.79	1.61	0.02
<u>POAC16_P60782</u>	FOLB	PLSY	327	223	0.70	1.61	0.01
<u>POABU9_P0ABV6</u>	TOLQ	TOLR	372	1732	4.89	1.61	0.91
<u>P69222_P0A9P4</u>	IF1	TRXB	393	270	0.70	1.61	0.01

<u>POAAW1_P75849</u>	YBHP	YCBL	468	293	0.65	1.61	0.01
<u>P80645_POAGE6</u>	SSUD	YIEF	569	357	0.67	1.60	0.01
<u>POABJ3_POAFe8</u>	CYOC	NUOM	713	1082	1.85	1.60	0.59
<u>P24224_P33647</u>	ACPS	CHPB	242	169	0.72	1.60	0.01
<u>P46846_P28369</u>	GNTX	RFH	393	233	0.60	1.60	0.00
<u>POA7H3_P0AGB6</u>	RECO	RPOE	433	254	0.60	1.60	0.00
<u>P08142_P0ADF8</u>	ILVB	ILVN	658	1009	1.58	1.60	0.43
<u>P76078_P0ABW3</u>	PAAB	YFAE	179	169	0.97	1.60	0.06
<u>P32173_P32125</u>	MOBA	MOBB	369	287	0.81	1.60	0.02
<u>POAFC3_P31979</u>	NUOA	NUOF	592	453	0.84	1.59	0.02
<u>POAAC8_P0ACD4</u>	ISCA	NIFU	235	235	1.01	1.59	0.07
<u>P33931_P0ABM5</u>	CCMA	CCMD	276	250	0.93	1.59	0.04
<u>P08200_P0ADF8</u>	IDH	ILVN	512	369	0.82	1.59	0.02
<u>P52086_P0AAT6</u>	COBC	IOJAP	308	208	0.70	1.59	0.01
<u>P23484_P0A7Y0</u>	FECI	RNC	399	253	0.67	1.59	0.01
<u>POABM5_P0AA86</u>	CCMD	DSBE	254	172	0.69	1.59	0.01
<u>P30137_O32583</u>	THIE	THIS	277	635	2.42	1.59	0.75
<u>POA717_Q46810</u>	KPRS	MOCA	507	429	0.86	1.58	0.02
<u>POA6E6_Q46810</u>	ATPE	MOCA	331	213	0.66	1.58	0.01
<u>POAC41_P07014</u>	DHSA	DHSB	826	910	1.11	1.58	0.10
<u>POA786_P0A7F3</u>	PYRB	PYRI	464	294	0.64	1.58	0.00
<u>POA6A8_P0ABD8</u>	ACP	BCCP	234	208	0.90	1.58	0.03
<u>P12999_P12998</u>	BIOC	BIOF	635	483	0.77	1.58	0.01
<u>P76004_P77544</u>	YCGM	YFCF	433	431	1.05	1.58	0.07
<u>POAC13_P0A6T5</u>	DHPS	GCH1	504	294	0.63	1.58	0.00
<u>P36659_P0AGL7</u>	CBPA	RSME	549	386	0.72	1.58	0.01
<u>POA720_P28305</u>	KTHY	PABC	482	294	0.62	1.58	0.00
<u>POAEM6_P0AFP6</u>	FLIA	YBGI	486	297	0.65	1.58	0.00
<u>POA6P1_P10442</u>	EFTS	RNH2	481	329	0.70	1.58	0.01
<u>POABW9_P75936</u>	FLGB	FLGD	369	324	0.95	1.58	0.04
<u>POA6S5_P62617</u>	FTSB	ISPF	262	161	0.65	1.57	0.00
<u>P21645_P60472</u>	LPXD	UPPS	594	353	0.62	1.57	0.00
<u>POA738_P30748</u>	MOAC	MOAD	242	292	1.23	1.57	0.14
<u>POABX2_P0A6S0</u>	FLGC	FLGH	366	356	1.01	1.57	0.05
<u>P30138_P30139</u>	THIF	THIG	507	364	0.73	1.57	0.01
<u>POA8R4_P45530</u>	SLYX	TUSB	167	102	0.61	1.57	0.00
<u>P54901_P69822</u>	CSIE	ULAB	527	337	0.67	1.57	0.00
<u>P24224_P0A794</u>	ACPS	PDXJ	369	311	0.85	1.57	0.02
<u>POA7B3_P05824</u>	PPNK	RECN	845	670	0.80	1.57	0.01
<u>POAFC3_P0AFD4</u>	NUOA	NUOH	472	738	1.72	1.56	0.43
<u>P76299_P0AC05</u>	FLHB	FLIP	627	642	1.07	1.56	0.07
<u>P75933_P75936</u>	FLGA	FLGD	450	253	0.60	1.56	0.00
<u>POAG99_P0A858</u>	SECG	TPIS	365	291	0.82	1.56	0.01
<u>P68699_P0ABC0</u>	ATPL	ATPZ	205	124	0.63	1.56	0.00
<u>POA855_P0ABU9</u>	TOLB	TOLQ	660	447	0.70	1.56	0.01
<u>P52086_P36561</u>	COBC	COBS	450	454	1.03	1.56	0.05
<u>POAFX0_P0ADV1</u>	HPF	LPTA	280	210	0.82	1.56	0.01
<u>POAEN1_P76080</u>	FRE	PAAD	398	236	0.61	1.56	0.00
<u>POABX8_P0AC07</u>	FLIL	FLIQ	243	289	1.22	1.56	0.11
<u>POAC84_P0A7Y4</u>	GLO2	RNH	406	284	0.70	1.56	0.01
<u>P04951_P0AAZ7</u>	KDSB	YCAR	308	223	0.73	1.55	0.01
<u>POA756_P0ACN2</u>	KEFG	YTFH	310	284	1.00	1.55	0.04

<u>P77756_P65870</u>	QUEC	QUED	352	294	0.87	1.55	0.02
<u>POA988_POAES6</u>	DPO3B	GYRB	1170	809	0.69	1.55	0.01
<u>P22586_POAC07</u>	FLIO	FLIQ	210	170	0.85	1.55	0.01
<u>POAFX0_POABZ4</u>	HPF	KDSC	283	252	0.92	1.55	0.02
<u>P69490_P32711</u>	CCME	NRFF	286	359	1.35	1.55	0.17
<u>P76173_P56256</u>	YNFH	YSAA	441	288	0.67	1.55	0.00
<u>POA6E6_P37744</u>	ATPE	RMLA1	432	266	0.68	1.55	0.00
<u>P24224_POA7Y0</u>	ACPS	RNC	352	307	0.89	1.55	0.02
<u>POADV7_P64604</u>	MLAC	MLAD	394	320	0.86	1.55	0.01
<u>POAGB6_POACC9</u>	RPOE	WCAB	353	206	0.62	1.55	0.00
<u>POA703_POAMM7</u>	HYBF	HYBG	195	382	2.02	1.55	0.55
<u>POABA0_P37744</u>	ATPF	RMLA1	449	292	0.71	1.54	0.00
<u>P06968_P76362</u>	DUT	YEES	299	182	0.62	1.54	0.00
<u>P41442_P45761</u>	GSPG	GSPJ	340	208	0.66	1.54	0.00
<u>POAC16_P0A6T5</u>	FOLB	GCH1	344	286	0.92	1.54	0.02
<u>POA6P7_P76576</u>	ENGB	YFGM	416	427	1.15	1.54	0.07
<u>POA6I9_P08337</u>	COAE	MUTT	335	271	0.83	1.54	0.01
<u>POAEI4_P39874</u>	RIMO	YBEM	703	465	0.69	1.54	0.00
<u>P36662_Q46819</u>	TORD	YGFS	361	389	1.12	1.54	0.06
<u>P25519_P16384</u>	HFLX	MIAA	742	453	0.63	1.54	0.00
<u>POAAC8_P0A9X4</u>	ISCA	MREB	454	301	0.71	1.54	0.00
<u>POAC62_P0AG86</u>	GLRX3	SECB	238	177	0.77	1.53	0.01
<u>POABX8_P22586</u>	FLIL	FLIO	275	176	0.66	1.53	0.00
<u>POA6P7_P60782</u>	ENGB	PLSY	415	326	0.90	1.53	0.02
<u>P22634_P52061</u>	MURI	RDGB	482	308	0.69	1.53	0.00
<u>POAEN1_P77285</u>	FRE	RNFG	439	283	0.69	1.53	0.00
<u>POA6K3_P45748</u>	DEF	RIMN	359	265	0.76	1.53	0.01
<u>POABD8_P0A6Q6</u>	BCCP	FABZ	307	215	0.72	1.53	0.00
<u>P52613_POAC07</u>	FLIJ	FLIQ	236	193	0.82	1.53	0.01
<u>POA814_P0A8Z3</u>	RUVC	YBGC	307	246	0.82	1.53	0.01
<u>POABA4_P37744</u>	ATPD	RMLA1	470	316	0.73	1.53	0.00
<u>POAEN1_P09832</u>	FRE	GLTD	705	430	0.63	1.52	0.00
<u>POA7G2_P0AG40</u>	RBFA	RIBF	446	520	1.22	1.52	0.08
<u>P11989_P24241</u>	BGLG	PTIBC	763	443	0.60	1.52	0.00
<u>POAE78_P0A9K3</u>	CORC	PHOL	638	534	0.91	1.52	0.01
<u>P46846_POAFX0</u>	GNTX	HPF	322	367	1.15	1.52	0.05
<u>POA6P7_P27434</u>	ENGB	RODZ	547	313	0.63	1.52	0.00
<u>POAB98_P68699</u>	ATP6	ATPL	350	749	2.21	1.52	0.56
<u>POAE30_POABW3</u>	ARTM	YFAE	306	252	0.84	1.52	0.01
<u>POADH7_P0A7B8</u>	FIME	HSLV	374	280	0.78	1.51	0.01
<u>POA7Y4_P75672</u>	RNH	YAFS	395	238	0.61	1.51	0.00
<u>P09126_P77475</u>	HEM4	YQAB	434	266	0.62	1.51	0.00
<u>P07014_P69054</u>	DHSB	DHSC	367	316	0.87	1.51	0.01
<u>POA6K1_P0A8P6</u>	DAPF	XERC	572	365	0.64	1.51	0.00
<u>P60720_P0A8J4</u>	LIPB	YBED	300	277	0.95	1.51	0.02
<u>POA707_P08312</u>	IF3	SYFA	507	478	0.97	1.51	0.02
<u>P76080_POABW3</u>	PAAD	YFAE	249	245	1.03	1.51	0.03
<u>P75684_P75694</u>	YAGP	YAHO	227	144	0.69	1.51	0.00
<u>POABG4_P0A6W3</u>	FTSW	MRAY	774	1043	1.45	1.50	0.15
<u>P06616_P0A9K3</u>	ERA	PHOL	647	412	0.68	1.50	0.00
<u>P03004_P0A988</u>	DNAA	DPO3B	833	916	1.11	1.50	0.04
<u>POABM1_P32711</u>	CCMC	NRFF	372	284	0.79	1.50	0.01

<u>POABX2_P52612</u>	FLGC	FLII	591	409	0.72	1.50	0.00
<u>P77650_POAFG6</u>	HCAD	ODO2	805	1274	1.64	1.50	0.24
<u>POA955_P45543</u>	ALKH	FRLD	474	667	1.44	1.50	0.14
<u>POAF18_POA759</u>	NAGA	NAGB	648	461	0.72	1.50	0.00
<u>P03004_POA7H0</u>	DNAA	RECF	824	730	0.89	1.50	0.01
<u>P07862_POA725</u>	DDLB	LPXC	611	371	0.63	1.50	0.00
<u>P37002_POA972</u>	CRCB	CSPE	196	120	0.64	1.49	0.00
<u>POABW9_P75937</u>	FLGB	FLGE	540	429	0.80	1.49	0.00
<u>POAFX0_P69829</u>	HPF	PTSN	258	378	1.54	1.49	0.18
<u>P04951_P27300</u>	KDSB	LPXK	576	384	0.67	1.49	0.00
<u>POABS1_P26281</u>	DKSA	HPPK	310	188	0.61	1.49	0.00
<u>P31979_POAFE4</u>	NUOF	NUOK	545	457	0.88	1.49	0.01
<u>POAFD1_P31979</u>	NUOE	NUOF	611	1030	1.80	1.49	0.31
<u>P52061_P52062</u>	RDGB	YGGW	575	406	0.71	1.49	0.00
<u>POABA6_P68699</u>	ATPG	ATPL	366	892	2.48	1.49	0.59
<u>POAERO_POA6F3</u>	GLPF	GLPK	783	485	0.65	1.49	0.00
<u>POA6Q6_POAEH1</u>	FABZ	RSEP	601	435	0.73	1.49	0.00
<u>POA780_P39286</u>	NUSB	RSGA	489	313	0.76	1.49	0.00
<u>POA6C8_POA6E4</u>	ARGB	ASSY	705	407	0.62	1.49	0.00
<u>P39172_P39832</u>	ZNUA	ZNUB	571	1563	2.89	1.49	0.68
<u>P06616_POA7Y0</u>	ERA	RNC	527	430	0.84	1.49	0.01
<u>POA988_POA7Y8</u>	DPO3B	RNPA	485	402	0.84	1.49	0.01
<u>P77223_P76182</u>	RNFB	RNFD	544	465	0.87	1.49	0.01
<u>POAB83_POA8P3</u>	END3	FETP	302	195	0.68	1.49	0.00
<u>P41442_P45762</u>	GSPG	GSPK	472	315	0.69	1.49	0.00
<u>P05055_POA7G2</u>	PNP	RBFA	844	525	0.64	1.48	0.00
<u>POAEM6_POABS5</u>	FLIA	PRIM	820	798	1.00	1.48	0.01
<u>P67701_P64578</u>	HIGA	HIGB	242	197	0.92	1.48	0.01
<u>P12999_P46846</u>	BIOC	GNTX	478	316	0.67	1.48	0.00
<u>P76298_P76299</u>	FLHA	FLHB	1074	650	0.62	1.48	0.00
<u>POAG40_P0CG19</u>	RIBF	RNPH	541	353	0.68	1.48	0.00
<u>POABX8_P33135</u>	FLIL	FLIR	415	285	0.70	1.48	0.00
<u>P36659_POABH0</u>	CBPA	FTSA	726	531	0.86	1.48	0.01
<u>P69783_POAA04</u>	PTGA	PTHP	254	180	0.72	1.48	0.00
<u>POA9R4_POA9X4</u>	FER	MREB	458	270	0.65	1.48	0.00
<u>P69931_POAGGO</u>	HDA	THIL	558	330	0.64	1.48	0.00
<u>POAFF6_POA8A8</u>	NUSA	RIMP	645	508	0.79	1.48	0.00
<u>POAB28_POA729</u>	YCED	YCEF	367	276	0.76	1.48	0.00
<u>POADV7_POA9W6</u>	MLAC	YRBA	295	235	0.80	1.48	0.00
<u>P77788_POACY1</u>	NUDG	YDJA	318	255	0.82	1.48	0.00
<u>P07639_P12008</u>	AROB	AROC	723	521	0.74	1.48	0.00
<u>POAGL5_POA832</u>	RATA	SSRP	318	216	0.73	1.47	0.00
<u>Q47140_POABW3</u>	HCAF	YFAE	256	217	0.89	1.47	0.01
<u>P67087_P27859</u>	RSMI	TATD	546	345	0.66	1.47	0.00
<u>POAFD1_POAFD6</u>	NUOE	NUOI	346	256	0.76	1.47	0.00
<u>POAGK8_POACD4</u>	ISCR	NIFU	290	345	1.29	1.47	0.06
<u>POA8T5_POABX8</u>	FLIE	FLIL	258	189	0.75	1.47	0.00
<u>P76142_P04982</u>	LSRB	RBSD	479	300	0.74	1.47	0.00
<u>POA988_POA7H0</u>	DPO3B	RECF	723	827	1.15	1.47	0.03
<u>P76299_POAC07</u>	FLHB	FLIQ	471	672	1.45	1.47	0.11
<u>POA7F9_POADZ7</u>	QUEA	YAJC	466	317	0.69	1.47	0.00
<u>P36647_POA8H8</u>	PPDD	YACG	211	184	0.90	1.47	0.01

<u>POA805 POAEH1</u>	RRF	RSEP	635	673	1.06	1.47	0.02
<u>P76256 POAF67</u>	YEAZ	YJEE	384	567	1.52	1.47	0.13
<u>POA6A8 P28306</u>	ACP	YCEG	418	352	0.85	1.47	0.00
<u>POA6P1 POA6Q6</u>	EFTS	FABZ	434	300	0.70	1.47	0.00
<u>POA9K3 Q47679</u>	PHOL	YAFV	602	380	0.72	1.47	0.00
<u>P30745 P32173</u>	MOAA	MOBA	523	451	0.88	1.46	0.01
<u>POA6P7 POAF67</u>	ENGB	YJEE	363	259	0.81	1.46	0.00
<u>POA6K3 P36929</u>	DEF	RSMB	598	640	1.08	1.46	0.02
<u>P30745 P30748</u>	MOAA	MOAD	410	288	0.70	1.46	0.00
<u>P45531 POAB52</u>	TUSC	YCHN	236	226	0.97	1.46	0.01
<u>POA7X6 P10442</u>	RIMM	RNH2	380	406	1.16	1.46	0.03
<u>P14176 POAFM2</u>	PROW	PROX	684	449	0.77	1.46	0.00
<u>POABG4 P22186</u>	FTSW	MRAZ	566	815	1.60	1.46	0.15
<u>POCOR7 POAGK4</u>	RLME	YHBY	306	202	0.66	1.46	0.00
<u>P00804 POC0U4</u>	LSPA	RIMK	464	332	0.76	1.46	0.00
<u>POAC00 Q46810</u>	FRLB	MOCA	532	385	0.80	1.46	0.00
<u>POAEZ9 P30749</u>	MOAB	MOAE	320	281	0.89	1.46	0.01
<u>P00804 POAG40</u>	LSPA	RIBF	477	377	0.82	1.46	0.00
<u>P24224 POA6B4</u>	ACPS	ALR1	485	303	0.63	1.46	0.00
<u>P77223 P77285</u>	RNFB	RNFG	398	436	1.11	1.45	0.02
<u>POA9R4 POA6B7</u>	FER	ISCS	515	323	0.63	1.45	0.00
<u>P33362 P33359</u>	OSMF	YEHW	548	551	1.09	1.45	0.02
<u>P75933 POA6S0</u>	FLGA	FLGH	451	305	0.71	1.45	0.00
<u>P52119 POA832</u>	RATB	SSRP	256	232	0.94	1.45	0.01
<u>POAFC3 POAFD1</u>	NUOA	NUOE	313	513	1.83	1.45	0.24
<u>POA8T1 POAGL7</u>	PRMA	RSME	536	380	0.71	1.45	0.00
<u>P32711 P32712</u>	NRFF	NRFG	325	347	1.13	1.45	0.02
<u>POABZ1 P52612</u>	FLIG	FLII	788	542	0.71	1.45	0.00
<u>P18200 POAGGO</u>	PGPA	THIL	497	329	0.69	1.45	0.00
<u>P76223 P76224</u>	YNJB	YNJC	899	620	0.74	1.45	0.00
<u>POABH0 POA9A6</u>	FTSA	FTSZ	803	743	1.02	1.45	0.01
<u>P24224 P06616</u>	ACPS	ERA	427	281	0.67	1.45	0.00
<u>POA840 Q46798</u>	SURE	YGER	504	378	0.79	1.45	0.00
<u>POA6Q6 P60472</u>	FABZ	UPPS	404	379	1.01	1.45	0.01
<u>POAAT6 POA8I8</u>	IOJAP	RLMH	260	375	1.44	1.44	0.08
<u>POA780 POAFU8</u>	NUSB	RISA	352	443	1.33	1.44	0.05
<u>P69791 P69795</u>	PTQA	PTQB	222	537	2.66	1.44	0.54
<u>P68688 POAGJ7</u>	GLRX1	TRML	242	137	0.60	1.44	0.00
<u>P31806 POAF67</u>	NNR	YJEE	668	406	0.64	1.44	0.00
<u>P66817 P45465</u>	DIAA	YRAN	327	242	0.78	1.44	0.00
<u>POABZ4 P69829</u>	KDSC	PTSN	351	199	0.60	1.44	0.00
<u>POAFF6 POA7G2</u>	NUSA	RBFA	628	370	0.60	1.44	0.00
<u>P76500 P42913</u>	YFCQ	YRAH	356	203	0.60	1.44	0.00
<u>POAC62 POAG27</u>	GLRX3	YIBN	226	206	0.92	1.44	0.01
<u>P69490 POAA86</u>	CCME	DSBE	344	281	0.86	1.44	0.00
<u>POADE4 P60472</u>	TAMA	UPPS	830	541	0.73	1.44	0.00
<u>P23930 POA898</u>	LNT	YBEY	667	391	0.62	1.44	0.00
<u>POAFD6 POAFAE0</u>	NUOI	NUOJ	364	303	0.87	1.44	0.00
<u>POA7H0 POA7Y8</u>	RECf	RNPA	476	387	0.83	1.44	0.00
<u>P69441 POA7Z4</u>	KAD	RPOA	543	627	1.19	1.44	0.03
<u>P28861 POABR7</u>	FENR	YEAW	622	489	0.84	1.44	0.00
<u>P40874 O32583</u>	MTOX	THIS	438	380	0.88	1.44	0.00

<u>POA9L5_P55798</u>	PPIC	PRP1	311	233	0.82	1.44	0.00
<u>POA8I1_POA8W5</u>	RUVX	YQGE	325	303	0.94	1.44	0.01
<u>P32672_POA9N0</u>	PTFC2	PTSO	449	261	0.62	1.44	0.00
<u>POA7E9_P32677</u>	PYRH	YIJO	524	370	0.78	1.44	0.00
<u>P23721_POACC9</u>	SERC	WCAB	524	307	0.62	1.44	0.00
<u>POAG40_POA8A8</u>	RIBF	RIMP	463	454	1.00	1.44	0.01
<u>Q46925_POAGF2</u>	CSDA	Y GDK	548	420	0.78	1.44	0.00
<u>POA862_P64432</u>	TPX	YPJD	431	308	0.78	1.44	0.00
<u>POACC1_POAFR4</u>	PRMC	YCIO	483	547	1.15	1.43	0.02
<u>POAEK2_POAB28</u>	FABG	YCED	417	269	0.65	1.43	0.00
<u>POAFM9_POAFN2</u>	PSPB	PSPC	193	120	0.64	1.43	0.00
<u>POA7D1_POABU2</u>	PTH	YCHF	557	347	0.62	1.43	0.00
<u>POA738_P30749</u>	MOAC	MOAE	311	390	1.29	1.43	0.04
<u>POA752_POA7E9</u>	NADD	PYRH	454	306	0.69	1.43	0.00
<u>P13000_P12998</u>	BIOD1	BIOF	609	698	1.16	1.43	0.02
<u>P26281_P31057</u>	HPPK	PANB	423	274	0.65	1.43	0.00
<u>P03007_POA7Y4</u>	DPO3E	RNH	398	249	0.64	1.43	0.00
<u>POAAC8_POAGK8</u>	ISCA	ISCR	269	290	1.16	1.43	0.02
<u>POAC28_POADS2</u>	YGFA	ZAPA	291	187	0.65	1.43	0.00
<u>POAFB5_POAFB8</u>	NTRB	NTRC	818	2263	2.84	1.43	0.54
<u>POAE18_POA805</u>	MAP1	RRF	449	279	0.63	1.42	0.00
<u>P15028_P15029</u>	FECB	FECD	618	3471	6.03	1.42	0.77
<u>POABF8_POA7G6</u>	PGSA	RECA	535	303	0.60	1.42	0.00
<u>P39901_P45527</u>	YBFI	YHBU	396	240	0.62	1.42	0.00
<u>P62615_POACC1</u>	ISPE	PRMC	560	396	0.72	1.42	0.00
<u>POAC13_POAGK4</u>	DHPS	YHBY	379	272	0.74	1.42	0.00
<u>POA780_P18200</u>	NUSB	PGPA	311	188	0.65	1.42	0.00
<u>POABL8_POAA86</u>	CCMB	DSBE	405	308	0.78	1.42	0.00
<u>P25522_POA7Y8</u>	MNME	RNPA	573	484	0.85	1.42	0.00
<u>P77789_P76137</u>	YDES	YDET	558	672	1.26	1.42	0.03
<u>POAA25_POAF67</u>	THIO	YJEE	262	246	0.97	1.42	0.01
<u>POA7H0_POA8C8</u>	RECF	YIDD	442	305	0.71	1.42	0.00
<u>POA752_P07004</u>	NADD	PROA	630	501	0.80	1.42	0.00
<u>POABJ1_POABJ6</u>	CYOA	CYOD	424	286	0.71	1.42	0.00
<u>POAE52_P32712</u>	BCP	NRFG	354	306	0.96	1.42	0.01
<u>POAAC8_P0C0L9</u>	ISCA	ISCX	173	121	0.70	1.42	0.00
<u>P04982_P33916</u>	RBSD	YEJF	668	391	0.63	1.42	0.00
<u>P69931_P08179</u>	HDA	PUR3	445	295	0.67	1.41	0.00
<u>POA6S0_P29744</u>	FLGH	FLGL	549	416	0.78	1.41	0.00
<u>P30137_Q46927</u>	THIE	YGDL	479	279	0.67	1.41	0.00
<u>POA710_POAB55</u>	YCIB	YCII	277	179	0.65	1.41	0.00
<u>POAES6_POA7H0</u>	GYRB	RECF	1161	708	0.61	1.41	0.00
<u>POA9N0_P36881</u>	PTSO	YADI	236	307	1.40	1.41	0.04
<u>POAE52_POA746</u>	BCP	MSRB	293	193	0.70	1.41	0.00
<u>P33931_POABM1</u>	CCMA	CCMC	452	552	1.25	1.41	0.02
<u>POA6A8_POA7Y0</u>	ACP	RNC	304	513	1.74	1.41	0.13
<u>POABW9_POA6S0</u>	FLGB	FLGH	370	329	0.92	1.41	0.00
<u>POAEN1_P39304</u>	FRE	ULAD	449	247	0.60	1.41	0.00
<u>POA752_POAGK4</u>	NADD	YHBY	310	279	0.95	1.41	0.00
<u>POADV1_POA9N0</u>	LPTA	PTSO	275	159	0.62	1.41	0.00
<u>P46478_P75777</u>	AAEX	YBHG	399	194	0.61	1.41	0.00
<u>POA7Y8_POAAS7</u>	RNPA	YBCJ	189	208	1.20	1.41	0.02

<u>POA6J8</u> <u>POA9A6</u>	DDLA	FTSZ	747	514	0.81	1.41	0.00
<u>P06989</u> <u>P06986</u>	HIS2	HIS8	559	359	0.66	1.41	0.00
<u>POA6V5</u> <u>P0ACC9</u>	GLPE	WCAB	270	167	0.67	1.41	0.00
<u>P08373</u> <u>P17443</u>	MURB	MURG	697	402	0.62	1.41	0.00
<u>POABV6</u> <u>POA8Z3</u>	TOLR	YBGC	276	439	1.64	1.41	0.10
<u>POA6H5</u> <u>POA7B8</u>	HSLU	HSLV	619	574	0.93	1.41	0.00
<u>P00452</u> <u>P69924</u>	RIR1	RIR2	1137	696	0.64	1.41	0.00
<u>P28631</u> <u>POA8B5</u>	HOLB	YBAB	443	819	1.96	1.41	0.20
<u>P00903</u> <u>POA7E1</u>	PABA	PYRD	523	371	0.72	1.40	0.00
<u>P00893</u> <u>P30125</u>	ILVI	LEU3	937	587	0.64	1.40	0.00
<u>POA988</u> <u>POA8C8</u>	DPO3B	YIDD	451	323	0.73	1.40	0.00
<u>POABX2</u> <u>POA6S3</u>	FLGC	FLGI	499	316	0.65	1.40	0.00
<u>POA8D0</u> <u>POAFU8</u>	NRDR	RISA	362	260	0.75	1.40	0.00
<u>POA6H1</u> <u>POA6P7</u>	CLPX	ENGB	634	383	0.64	1.40	0.00
<u>P28631</u> <u>POA7H6</u>	HOLB	RECR	535	809	1.60	1.40	0.08
<u>POA6L9</u> <u>P0C0L9</u>	HSCB	ISCX	237	161	0.68	1.40	0.00
<u>POAEI1</u> <u>POA898</u>	MIAB	YBEY	629	500	0.84	1.40	0.00
<u>POA6A8</u> <u>POA8W2</u>	ACP	SLYA	222	190	0.89	1.40	0.00
<u>P30138</u> <u>O32583</u>	THIF	THIS	317	410	1.31	1.40	0.03
<u>POA6I9</u> <u>Q46836</u>	COAE	PPPA	475	291	0.63	1.40	0.00
<u>P42906</u> <u>P32718</u>	AGAA	ALSK	476	301	0.66	1.40	0.00
<u>P22188</u> <u>P60390</u>	MURE	RSMH	808	1264	1.60	1.40	0.07
<u>P21888</u> <u>POAGJ7</u>	SYC	TRML	618	647	1.07	1.40	0.01
<u>POABU9</u> <u>POA8Z3</u>	TOLQ	YBGC	364	402	1.15	1.40	0.01
<u>POAAI9</u> <u>P27247</u>	FABD	PLSX	665	478	0.75	1.40	0.00
<u>P77774</u> <u>P76576</u>	BAMB	YFGM	598	393	0.67	1.40	0.00
<u>POA9X4</u> <u>POABG7</u>	MREB	RODA	717	1095	1.59	1.40	0.07
<u>P75925</u> <u>POA8X2</u>	C56I	YCEI	379	288	0.78	1.40	0.00
<u>P05852</u> <u>POAF67</u>	GCP	YJEE	490	420	0.88	1.39	0.00
<u>POA6G3</u> <u>P33596</u>	PNCC	RECX	331	326	1.06	1.39	0.01
<u>P00804</u> <u>P00903</u>	LSPA	PABA	351	296	0.88	1.39	0.00
<u>POA6I6</u> <u>POADX9</u>	COAD	RSMD	357	800	2.38	1.39	0.33
<u>P77488</u> <u>POA8G9</u>	DXS	EX7S	700	433	0.63	1.39	0.00
<u>P25522</u> <u>POA8C8</u>	MNME	YIDD	539	418	0.80	1.39	0.00
<u>P23882</u> <u>POAFR4</u>	FMT	YCIO	521	298	0.60	1.39	0.00
<u>P75777</u> <u>POAFP9</u>	YBHG	YBHR	700	932	1.35	1.39	0.03
<u>P31456</u> <u>P76201</u>	CBRA	YDIQ	608	392	0.68	1.39	0.00
<u>P19930</u> <u>POAM3</u>	HYAD	HYPC	285	243	0.94	1.39	0.00
<u>POA6A8</u> <u>P28305</u>	ACP	PABC	347	261	0.76	1.39	0.00
<u>POAD68</u> <u>P17443</u>	FTSI	MURG	943	955	1.07	1.39	0.01
<u>POA6N4</u> <u>POAE18</u>	EFP	MAP1	452	341	0.83	1.39	0.00
<u>POA7E9</u> <u>POAEH1</u>	PYRH	RSEP	691	694	1.01	1.39	0.00
<u>POACZ2</u> <u>POAFR4</u>	ETP	YCIO	354	228	0.67	1.39	0.00
<u>Q47537</u> <u>Q47539</u>	TAUA	TAUC	595	2747	5.13	1.38	0.69
<u>POA9K3</u> <u>POA898</u>	PHOL	YBEY	501	837	1.80	1.38	0.11
<u>POA6J1</u> <u>P21156</u>	CYSC	CYSD	503	360	0.73	1.38	0.00
<u>P77581</u> <u>P30140</u>	ASTC	THIH	783	469	0.66	1.38	0.00
<u>POAB98</u> <u>POABA4</u>	ATP6	ATPD	448	792	1.80	1.38	0.11
<u>P27303</u> <u>POACR9</u>	EMRA	MPRA	566	318	0.61	1.38	0.00
<u>P30745</u> <u>P30749</u>	MOAA	MOAE	479	393	0.83	1.38	0.00
<u>POAFD1</u> <u>POAFD4</u>	NUOE	NUOH	491	506	1.07	1.38	0.01
<u>P32719</u> <u>P39286</u>	ALSE	RSGA	581	355	0.72	1.38	0.00

<u>P41441_P41442</u>	GSPF	GSPG	543	420	0.79	1.38	0.00
<u>POA720_P28306</u>	KTHY	YCEG	553	376	0.69	1.38	0.00
<u>POA6Q6_P10442</u>	FABZ	RNH2	349	235	0.71	1.38	0.00
<u>POAEJ0_POACR9</u>	EMRB	MPRA	688	944	1.48	1.38	0.04
<u>P76584_P77509</u>	YPHB	YPHE	793	549	0.71	1.38	0.00
<u>P52086_POAE76</u>	COBC	COBU	384	427	1.14	1.38	0.01
<u>P08373_POABG7</u>	MURB	RODA	712	396	0.61	1.38	0.00
<u>POA6G7_POACF4</u>	CLPP	DBHB	297	209	0.73	1.38	0.00
<u>POA6V5_POA6S7</u>	GLPE	GPDA	447	261	0.60	1.38	0.00
<u>POCF60_P19768</u>	INSD8	INSJ	391	290	0.79	1.38	0.00
<u>P18196_POAEZ3</u>	MINC	MIND	501	531	1.06	1.38	0.01
<u>POABM1_POAA86</u>	CCMC	DSBE	430	342	0.82	1.38	0.00
<u>POA9A6_POA9X4</u>	FTSZ	MREB	730	533	0.88	1.38	0.00
<u>P76079_P76080</u>	PAAC	PAAD	413	262	0.65	1.38	0.00
<u>POA9L8_P67080</u>	P5CR	YGG5	503	353	0.71	1.38	0.00
<u>POA6Q6_POADE4</u>	FABZ	TAMA	728	572	0.87	1.37	0.00
<u>P52073_P52074</u>	GLCE	GLCF	757	587	0.78	1.37	0.00
<u>POA8N7_P60906</u>	EPMA	SYH	749	582	0.81	1.37	0.00
<u>P10902_P30011</u>	NADB	NADC	837	485	0.61	1.37	0.00
<u>P05020_POA7E1</u>	PYRC	PYRD	684	521	0.85	1.37	0.00
<u>P17444_P75811</u>	BETA	YBJK	734	534	0.74	1.36	0.00
<u>POA8I1_P28306</u>	RUVX	YCEG	478	445	0.95	1.36	0.00
<u>P69222_POA7Z4</u>	IF1	RPOA	401	596	1.56	1.36	0.04
<u>POA847_POADZ7</u>	TGT	YAJC	485	378	0.79	1.36	0.00
<u>POA988_POAAS7</u>	DPO3B	YBCJ	436	287	0.66	1.36	0.00
<u>P75938_P33235</u>	FLGF	FLGK	798	603	0.76	1.36	0.00
<u>P32154_P32143</u>	PTFLB	YIHV	781	559	0.74	1.36	0.00
<u>POA6P7_POAA53</u>	ENGB	QMCA	515	383	0.85	1.36	0.00
<u>P28630_POA7H6</u>	HOLA	RECR	544	846	1.64	1.36	0.05
<u>POA812_POA8A0</u>	RUVB	YEBC	582	417	0.72	1.36	0.00
<u>P65870_P64554</u>	QUED	QUEE	344	454	1.35	1.36	0.02
<u>POAE78_Q47679</u>	CORC	YAFV	548	564	1.10	1.36	0.01
<u>P69503_POAG93</u>	APT	SECF	506	309	0.66	1.36	0.00
<u>POAB98_POABA6</u>	ATP6	ATPG	558	831	1.52	1.35	0.03
<u>POABG1_POA6P1</u>	CDSA	EFTS	568	705	1.27	1.35	0.01
<u>POAAC8_POAGJ7</u>	ISCA	TRML	264	218	0.86	1.35	0.00
<u>POAE67_POA9H9</u>	CHEY	CHEZ	343	235	0.69	1.35	0.00
<u>POA8Y8_POA8J8</u>	ENTH	RHLB	558	320	0.64	1.35	0.00
<u>P21645_POA7E9</u>	LPXD	PYRH	582	352	0.61	1.35	0.00
<u>P69503_P08244</u>	APT	PYRF	428	312	0.81	1.35	0.00
<u>POAAC0_POA9E9</u>	USPE	YEIL	535	307	0.62	1.35	0.00
<u>P77437_POAFD6</u>	HYFF	NUOI	706	405	0.61	1.35	0.00
<u>POA6P7_POABN1</u>	ENGB	KDGL	332	286	1.03	1.35	0.00
<u>POA6I9_P52052</u>	COAE	YGRG	532	320	0.62	1.35	0.00
<u>POA7F9_POA847</u>	QUEA	TGT	731	522	0.73	1.35	0.00
<u>P77756_P64554</u>	QUEC	QUEE	454	467	1.07	1.35	0.00
<u>POAB98_POA6E6</u>	ATP6	ATPE	410	603	1.50	1.35	0.03
<u>P24224_P23484</u>	ACPS	FECI	299	177	0.62	1.35	0.00
<u>POA780_POA7I7</u>	NUSB	RIBA	335	424	1.29	1.35	0.01
<u>POA7G6_P33596</u>	RECA	RECX	519	454	0.96	1.34	0.00
<u>P75966_POA8P8</u>	RLUE	XERD	515	448	0.96	1.34	0.00
<u>P06983_P09126</u>	HEM3	HEM4	559	933	1.70	1.34	0.05

<u>P03959_P0AGA6</u>	ATKA	UHPA	753	457	0.61	1.34	0.00
<u>POA8Z3_P45955</u>	YBGC	YBGF	397	245	0.63	1.34	0.00
<u>POA722_P0ADE4</u>	LPXA	TAMA	839	579	0.76	1.34	0.00
<u>POA6A8_P0AA43</u>	ACP	RSUA	309	259	0.86	1.34	0.00
<u>POA8G9_P22939</u>	EX7S	ISPA	379	609	1.62	1.34	0.04
<u>POA722_P0AEU7</u>	LPXA	SKP	423	293	0.71	1.34	0.00
<u>POAFI2_P20083</u>	PARC	PARE	1382	989	0.74	1.34	0.00
<u>POADA1_P0AA25</u>	TESA	THIO	317	189	0.65	1.34	0.00
<u>POA738_P12281</u>	MOAC	MOEA	572	507	0.91	1.34	0.00
<u>POABG1_P0A805</u>	CDSA	RRF	470	1024	2.24	1.34	0.17
<u>POA6A8_P0A720</u>	ACP	KTHY	291	219	0.77	1.34	0.00
<u>POABG1_P0A6Q6</u>	CDSA	FABZ	436	429	1.04	1.34	0.00
<u>P05055_P60340</u>	PNP	TRUB	1025	619	0.62	1.34	0.00
<u>P16703_P62615</u>	CYSM	ISPE	586	420	0.77	1.34	0.00
<u>P69795_P17334</u>	PTQB	PTQC	558	528	1.01	1.34	0.00
<u>P06989_P60595</u>	HIS2	HIS5	399	407	1.03	1.34	0.00
<u>P31057_P0A790</u>	PANB	PAND	390	259	0.67	1.34	0.00
<u>P25522_P0A6U5</u>	MNME	RSMG	661	565	0.86	1.34	0.00
<u>P16384_P23367</u>	MIAA	MUTL	931	565	0.62	1.34	0.00
<u>POAC84_P75672</u>	GLO2	YAFS	491	387	0.80	1.33	0.00
<u>POAC07_P33135</u>	FLIQ	FLIR	350	808	2.34	1.33	0.20
<u>POAE82_P75830</u>	CPXA	MACA	828	478	0.61	1.33	0.00
<u>POA6Q6_P10441</u>	FABZ	LPXB	533	481	0.92	1.33	0.00
<u>POAELO_P37182</u>	FDOI	HYBD	375	210	0.60	1.33	0.00
<u>P06616_P0A7H3</u>	ERA	RECO	543	648	1.24	1.33	0.01
<u>POAEZ9_P0A738</u>	MOAB	MOAC	331	430	1.39	1.33	0.01
<u>P10442_P60472</u>	RNH2	UPPS	451	313	0.75	1.33	0.00
<u>POAD57_P17993</u>	ISPB	UBIG	563	361	0.69	1.33	0.00
<u>POAC53_P31470</u>	G6PD	YIEK	731	545	0.76	1.33	0.00
<u>POA780_P0AGGO</u>	NUSB	THIL	464	395	0.86	1.33	0.00
<u>POA6F9_P0A6F5</u>	CH10	CH60	645	967	1.55	1.33	0.03
<u>P07862_P22186</u>	DDLB	MRAZ	458	395	0.88	1.33	0.00
<u>POA717_P37744</u>	KPRS	RMLA1	608	535	0.96	1.33	0.00
<u>POAFX0_P0A9N0</u>	HPF	PTSO	185	191	1.04	1.33	0.00
<u>POAEZ3_P42589</u>	MIND	YGJH	380	325	0.93	1.33	0.00
<u>POA8N7_P28369</u>	EPMA	RFH	491	294	0.63	1.33	0.00
<u>P30749_P12281</u>	MOAE	MOEA	561	338	0.62	1.33	0.00
<u>P77239_P77211</u>	CUSB	CUSC	864	481	0.61	1.33	0.00
<u>P69490_P32712</u>	CCME	NRFG	357	276	0.83	1.33	0.00
<u>POA809_P0A8A0</u>	RUVA	YEBC	449	523	1.17	1.33	0.01
<u>POAG93_P0ADZ7</u>	SECF	YAJC	433	651	1.58	1.33	0.03
<u>P37674_P37676</u>	YIAM	YIAO	485	2259	5.04	1.32	0.56
<u>P46478_P75684</u>	AAEX	YAGP	203	134	0.71	1.32	0.00
<u>POAFD1_P0AFE4</u>	NUOE	NUOK	266	470	1.81	1.32	0.06
<u>POAFC3_P0AFF0</u>	NUOA	NUON	632	821	1.54	1.32	0.02
<u>POA9L5_P06992</u>	PPIC	RSMA	366	355	1.01	1.32	0.00
<u>P32719_P36929</u>	ALSE	RSMB	660	532	0.84	1.32	0.00
<u>POABA4_P0AG30</u>	ATPD	RHO	596	407	0.76	1.32	0.00
<u>POA814_P0A8A0</u>	RUV	YEBC	419	500	1.23	1.32	0.01
<u>POAE14_P06986</u>	AMPE	HIS8	640	747	1.25	1.32	0.01
<u>Q46810_P77183</u>	MOCA	YAGQ	510	367	0.78	1.32	0.00
<u>POA6I9_P0A8H8</u>	COAE	YACG	271	244	0.93	1.32	0.00

<u>P28305_P0AA37</u>	PABC	RLUA	488	327	0.69	1.32	0.00
<u>P31979_P0AFF0</u>	NUOF	NUON	930	505	0.61	1.32	0.00
<u>P0A6P7_P0A6S7</u>	ENGB	GPDA	549	347	0.70	1.32	0.00
<u>P24182_P51020</u>	ACCC	HOA	786	569	0.76	1.32	0.00
<u>P0A7D1_P0A8J8</u>	PTH	RHLB	615	455	0.85	1.32	0.00
<u>P75936_P29744</u>	FLGD	FLGL	548	376	0.72	1.32	0.00
<u>P68699_P37744</u>	ATPL	RMLA1	372	254	0.76	1.32	0.00
<u>P0A6C8_P11447</u>	ARGB	ARLY	715	487	0.69	1.32	0.00
<u>P31456_Q47679</u>	CBRA	YAFV	610	487	0.83	1.32	0.00
<u>P0AEF0_P37007</u>	DNAC	YAGA	629	549	0.99	1.31	0.00
<u>P60560_P00903</u>	GUAC	PABA	534	563	1.09	1.31	0.00
<u>P0ABJ3_P0AEA5</u>	CYOC	CYOE	500	571	1.22	1.31	0.01
<u>P15070_P0AC07</u>	FLIN	FLIQ	226	177	0.79	1.31	0.00
<u>P0ABJ3_P16430</u>	CYOC	HYCD	511	1174	2.62	1.31	0.22
<u>P07654_P0AG82</u>	PSTA	PSTS	642	902	1.53	1.31	0.02
<u>P0A6P1_P0AEH1</u>	EFTS	RSEP	733	519	0.71	1.31	0.00
<u>P0AFU0_P33916</u>	YEJB	YEJF	893	2349	2.76	1.31	0.25
<u>P76422_P76423</u>	THID	THIM	528	407	0.79	1.31	0.00
<u>P0ABZ4_P45395</u>	KDSC	KDSD	516	355	0.71	1.31	0.00
<u>P0A6H1_P0A850</u>	CLPX	TIG	856	996	1.18	1.31	0.00
<u>P24192_P24193</u>	HYPD	HYPE	709	479	0.69	1.31	0.00
<u>P0A7A5_P0A840</u>	PIMT	SURE	461	336	0.74	1.31	0.00
<u>P61949_P75736</u>	FLAV	YBFF	430	266	0.63	1.31	0.00
<u>P36561_P0AE76</u>	COBS	COBU	428	646	1.52	1.31	0.02
<u>P0A9N0_P0A894</u>	PTSO	YHBJ	374	332	0.90	1.31	0.00
<u>P52137_P77295</u>	YFJV	YGAV	437	290	0.68	1.31	0.00
<u>P0AAM3_P24193</u>	HYPC	HYPE	426	445	1.09	1.31	0.00
<u>P0A6I9_P38506</u>	COAE	XNI	457	529	1.20	1.30	0.00
<u>P08337_P52052</u>	MUTT	YGGR	455	283	0.63	1.30	0.00
<u>P00934_P30177</u>	THRC	YBIB	748	541	0.82	1.30	0.00
<u>P0A7E1_P0C0U4</u>	PYRD	RIMK	636	446	0.73	1.30	0.00
<u>P20099_P77650</u>	BISC	HCAD	1177	760	0.68	1.30	0.00
<u>P08839_P0AA04</u>	PT1	PTHP	660	677	1.04	1.30	0.00
<u>P0AGI1_P04982</u>	RBSC	RBSD	460	379	0.86	1.30	0.00
<u>P76142_P45425</u>	LSRB	NANK	631	587	1.01	1.30	0.00
<u>P0A752_P0A818</u>	NADD	RLMH	368	346	0.94	1.30	0.00
<u>P33931_P69490</u>	CCMA	CCME	366	423	1.21	1.30	0.00
<u>P0A780_P61714</u>	NUSB	RISB	295	598	2.07	1.30	0.08
<u>P36659_P09372</u>	CBPA	GRPE	503	479	1.03	1.30	0.00
<u>P0AB96_P37309</u>	ARSC	ARSR	258	240	0.98	1.30	0.00
<u>P36645_P36646</u>	HOFB	HOFC	861	1344	1.59	1.30	0.02
<u>P0A7H0_P0AAS7</u>	RECF	YBCJ	427	306	0.72	1.30	0.00
<u>P0A6W3_P22186</u>	MRAY	MRAZ	512	867	1.71	1.29	0.03
<u>P43341_P23869</u>	LPXH	PPIB	404	280	0.69	1.29	0.00
<u>P0A9T0_P23721</u>	SERA	SERC	772	510	0.68	1.29	0.00
<u>P0A9T8_P77395</u>	YBBA	YBBN	512	339	0.67	1.29	0.00
<u>P12999_P13000</u>	BIOC	BIOD1	476	399	0.84	1.29	0.00
<u>P0AC13_P0AC16</u>	DHPS	FOLB	404	471	1.21	1.29	0.00
<u>P00903_P00926</u>	PABA	SDHD	629	386	0.73	1.29	0.00
<u>P0AE18_P60472</u>	MAP1	UPPS	517	301	0.62	1.29	0.00
<u>P0ABA4_P0ABA0</u>	ATPD	ATPF	333	1143	3.43	1.29	0.34
<u>P75824_P45469</u>	HCR	YRAR	533	321	0.62	1.29	0.00

<u>P22255_P23721</u>	CYSQ	SERC	608	360	0.62	1.29	0.00
<u>P28630_P0A720</u>	HOLA	KTHY	556	675	1.30	1.29	0.01
<u>P60595_P06988</u>	HIS5	HISX	630	681	1.10	1.29	0.00
<u>P33643_P33644</u>	RLUD	YFIH	569	505	0.91	1.29	0.00
<u>POA7X6_P0AGD7</u>	RIMM	SRP54	635	772	1.25	1.29	0.00
<u>POA832_P75736</u>	SSRP	YBFF	414	274	0.69	1.28	0.00
<u>POAGL5_P52119</u>	RATA	RATB	254	286	1.21	1.28	0.00
<u>POA6U3_P0A6U5</u>	MNMG	RSMG	836	694	0.84	1.28	0.00
<u>POABN1_P0A898</u>	KDGL	YBEY	277	285	1.11	1.28	0.00
<u>POAE78_P0A898</u>	CORC	YBEY	447	607	1.46	1.28	0.01
<u>P77183_P77324</u>	YAGQ	YAGS	636	362	0.64	1.28	0.00
<u>P27305_P0AGJ7</u>	GLUQ	TRML	465	271	0.63	1.28	0.00
<u>P10371_P06986</u>	HIS4	HIS8	601	837	1.42	1.28	0.01
<u>POAE18_P0AGA2</u>	MAP1	SECY	707	611	0.91	1.28	0.00
<u>P07862_P17443</u>	DDLB	MURG	661	757	1.18	1.28	0.00
<u>P69931_P0AA57</u>	HDA	YBCJ	303	245	0.86	1.28	0.00
<u>P31979_P0AFEO</u>	NUOF	NUOJ	629	482	0.82	1.28	0.00
<u>P14175_P0AFM2</u>	PROV	PROX	730	519	0.75	1.28	0.00
<u>P15067_P27127</u>	GLGX	RFAB	1016	667	0.66	1.28	0.00
<u>P00547_P06992</u>	KHSE	RSMA	583	409	0.75	1.28	0.00
<u>P11458_P30011</u>	NADA	NADC	644	557	0.96	1.27	0.00
<u>P11447_P0A6E4</u>	ARLY	ASSY	904	599	0.71	1.27	0.00
<u>P42909_P42910</u>	PTPB1	PTPC1	425	704	1.74	1.27	0.03
<u>P69828_P37188</u>	PTKA	PTKB	244	317	1.35	1.27	0.01
<u>P25714_P0A8C8</u>	YIDC	YIDD	633	387	0.63	1.27	0.00
<u>P31979_P0AFD4</u>	NUOF	NUOH	770	466	0.64	1.27	0.00
<u>POA7D7_P0AG18</u>	PUR7	PURE	406	352	0.90	1.27	0.00
<u>POAEH1_P60472</u>	RSEP	UPPS	703	621	0.91	1.27	0.00
<u>P24182_P0A786</u>	ACCC	PYRB	760	599	0.85	1.27	0.00
<u>POA6E6_P68699</u>	ATPE	ATPL	218	609	2.82	1.27	0.19
<u>P22939_P0A780</u>	ISPA	NUSB	438	474	1.11	1.27	0.00
<u>P23857_P77295</u>	PSPE	YGAV	203	367	2.02	1.27	0.05
<u>POADV7_P33360</u>	MLAC	YEHX	519	361	0.81	1.27	0.00
<u>POAEU7_P60472</u>	SKP	UPPS	414	373	0.96	1.27	0.00
<u>POAFD1_P33607</u>	NUOE	NUOL	779	537	0.70	1.27	0.00
<u>P76015_P76014</u>	DHAK	DHAL	566	504	0.94	1.27	0.00
<u>POAB87_P11553</u>	FUCA	FUCK	697	749	1.11	1.27	0.00
<u>POABQ0_P06968</u>	COABC	DUT	557	352	0.64	1.27	0.00
<u>P69222_P69441</u>	IF1	KAD	286	533	1.90	1.27	0.04
<u>P04395_P0AFH0</u>	3MG2	OGT	453	321	0.73	1.27	0.00
<u>P69931_P0A8C8</u>	HDA	YIDD	318	268	0.91	1.27	0.00
<u>P40874_P30139</u>	MTOX	THIG	628	394	0.64	1.26	0.00
<u>P60595_P0AFR4</u>	HIS5	YCIO	402	291	0.75	1.26	0.00
<u>POA6A8_P27247</u>	ACP	PLSX	434	574	1.40	1.26	0.01
<u>P64604_P33360</u>	MLAD	YEHX	491	430	1.07	1.26	0.00
<u>P07000_P0AG34</u>	PLDB	RHTB	546	410	0.81	1.26	0.00
<u>P33362_P33360</u>	OSMF	YEHX	613	755	1.28	1.26	0.00
<u>POA6R0_P0A6Q6</u>	FABH	FABZ	468	280	0.61	1.26	0.00
<u>POAC84_P0AD30</u>	GLO2	YFCA	520	382	0.82	1.26	0.00
<u>P23484_P52102</u>	FECI	YFHL	259	152	0.64	1.26	0.00
<u>P31456_Q46907</u>	CBRA	YGCQ	640	366	0.65	1.26	0.00
<u>POAE78_P0AER5</u>	CORC	GLTK	516	293	0.63	1.26	0.00

<u>POABA4</u>	<u>POA6E6</u>	ATPD	ATPE	316	962	3.06	1.26	0.21
<u>POA6R0</u>	<u>P27247</u>	FABH	PLSX	673	637	0.98	1.26	0.00
<u>POA812</u>	<u>POA814</u>	RUVB	RUVC	509	575	1.16	1.26	0.00
<u>PO6992</u>	<u>P27859</u>	RSMA	TATD	533	492	0.96	1.26	0.00
<u>POAAI9</u>	<u>POA6Q6</u>	FABD	FABZ	460	312	0.69	1.26	0.00
<u>POAEK7</u>	<u>P56256</u>	FDNI	YSAA	374	373	1.04	1.25	0.00
<u>POA6G7</u>	<u>POA9L5</u>	CLPP	PPIC	300	224	0.78	1.25	0.00
<u>POA7E1</u>	<u>POA7E3</u>	PYRD	PYRE	549	315	0.67	1.25	0.00
<u>PO8192</u>	<u>P08337</u>	FOLC	MUTT	551	334	0.66	1.25	0.00
<u>POAF63</u>	<u>POAGJ7</u>	NSRR	TRML	298	306	1.10	1.25	0.00
<u>P27248</u>	<u>P40874</u>	GCST	MTOX	736	646	0.89	1.25	0.00
<u>POA809</u>	<u>POA814</u>	RUVA	RUVC	376	744	2.03	1.25	0.04
<u>P69791</u>	<u>P17334</u>	PTQA	PTQC	568	542	1.03	1.25	0.00
<u>POAEN1</u>	<u>POA7E1</u>	FRE	PYRD	569	565	1.18	1.25	0.00
<u>POA6D3</u>	<u>POA6I0</u>	AROA	KCY	654	478	0.74	1.25	0.00
<u>P32719</u>	<u>POA6K3</u>	ALSE	DEF	400	334	0.90	1.25	0.00
<u>POAD01</u>	<u>POAEC8</u>	DCUR	DCUS	782	925	1.24	1.25	0.00
<u>P60716</u>	<u>P60720</u>	LIPA	LIPB	534	451	0.88	1.25	0.00
<u>POAE56</u>	<u>POABD3</u>	BFD	BFR	222	155	0.71	1.25	0.00
<u>POAAI5</u>	<u>POA6Q6</u>	FABF	FABZ	564	412	0.75	1.25	0.00
<u>P45568</u>	<u>POAEH1</u>	DXR	RSEP	848	832	0.99	1.25	0.00
<u>POAFE0</u>	<u>P33607</u>	NUOJ	NUOL	797	1000	1.28	1.25	0.00
<u>POA720</u>	<u>POAFQ7</u>	KTHY	YCFH	478	537	1.17	1.25	0.00
<u>P00804</u>	<u>POAA37</u>	LSPA	RLUA	383	617	1.74	1.25	0.02
<u>POAFE4</u>	<u>P33607</u>	NUOK	NUOL	713	2461	3.51	1.25	0.24
<u>P77538</u>	<u>POA8Y5</u>	YFHR	YIDA	554	328	0.66	1.24	0.00
<u>POABH0</u>	<u>POABG4</u>	FTSA	FTSW	834	676	0.87	1.24	0.00
<u>P07639</u>	<u>POA6D7</u>	AROB	AROK	535	828	1.56	1.24	0.01
<u>POAD57</u>	<u>POAA73</u>	ISPB	YHBE	644	392	0.65	1.24	0.00
<u>POAC00</u>	<u>P37744</u>	FRLB	RMLA1	633	526	0.95	1.24	0.00
<u>POA6Y1</u>	<u>POA6I0</u>	IHFb	KCY	321	507	1.62	1.24	0.01
<u>POAC13</u>	<u>POAAI3</u>	DHPS	FTSH	926	550	0.63	1.24	0.00
<u>P13001</u>	<u>P46846</u>	BIOH	GNTX	483	364	0.76	1.24	0.00
<u>P13000</u>	<u>Q46925</u>	BIOD1	CSDA	626	837	1.47	1.24	0.01
<u>P60566</u>	<u>P37353</u>	FIXA	MENE	707	421	0.61	1.24	0.00
<u>P23857</u>	<u>P76043</u>	PSPE	YCJQ	454	437	1.04	1.24	0.00
<u>POACB2</u>	<u>P06983</u>	HEM2	HEM3	637	518	0.83	1.24	0.00
<u>POA805</u>	<u>P60472</u>	RRF	UPPS	438	834	2.00	1.24	0.03
<u>P69503</u>	<u>POAEN1</u>	APT	FRE	416	416	1.04	1.24	0.00
<u>P77712</u>	<u>POACJ5</u>	FADM	YBAO	284	200	0.71	1.24	0.00
<u>P12996</u>	<u>P13000</u>	BIOB	BIOD1	571	532	0.94	1.23	0.00
<u>P69441</u>	<u>POAGA2</u>	KAD	SECY	657	783	1.23	1.23	0.00
<u>POAA25</u>	<u>P64432</u>	THIO	YPJD	372	291	0.83	1.23	0.00
<u>P00547</u>	<u>P32139</u>	KHSE	YIHR	618	373	0.64	1.23	0.00
<u>POA7Y8</u>	<u>P25714</u>	RNPA	YIDC	667	407	0.62	1.23	0.00
<u>POA6U8</u>	<u>POA6V1</u>	GLGA	GLGC	908	589	0.67	1.23	0.00
<u>POA786</u>	<u>POA7E1</u>	PYRB	PYRD	647	407	0.70	1.23	0.00
<u>P28630</u>	<u>POA8B5</u>	HOLA	YBAB	452	843	1.97	1.23	0.03
<u>P33913</u>	<u>P33915</u>	YEJA	YEJE	945	2133	2.46	1.23	0.07
<u>P08192</u>	<u>POA9X4</u>	FOLC	MREB	769	844	1.16	1.23	0.00
<u>POAA67</u>	<u>P75788</u>	RHTA	YBIR	667	465	0.73	1.23	0.00
<u>P09053</u>	<u>POA8M0</u>	AVTA	SYN	883	665	0.80	1.23	0.00

<u>POACB2_P09126</u>	HEM2	HEM4	570	453	0.81	1.23	0.00
<u>POA964_P07017</u>	CHEW	MCP2	720	528	0.79	1.23	0.00
<u>Q46857_P06721</u>	DKGA	METC	670	403	0.62	1.23	0.00
<u>P00547_Q46810</u>	KHSE	MOCA	502	354	0.73	1.23	0.00
<u>POA9A9_P39832</u>	FUR	ZNUB	409	558	1.42	1.23	0.00
<u>P28631_P0A720</u>	HOLB	KTHY	547	805	1.52	1.23	0.01
<u>POAEK2_P28306</u>	FABG	YCEG	584	561	0.97	1.23	0.00
<u>P15067_P61887</u>	GLGX	RMLA2	950	581	0.65	1.23	0.00
<u>P11989_P69783</u>	BGLG	PTGA	447	590	1.39	1.23	0.00
<u>P09372_P0A9X4</u>	GRPE	MREB	544	464	0.94	1.23	0.00
<u>POAF18_P09029</u>	NAGA	PURK	737	789	1.10	1.23	0.00
<u>P76422_O32583</u>	THID	THIS	332	248	0.75	1.23	0.00
<u>POABW0_P0ABW3</u>	HCAC	YFAE	190	590	3.19	1.23	0.16
<u>P25745_P23721</u>	MNMA	SERC	730	471	0.68	1.22	0.00
<u>POA6P7_P0A794</u>	ENGB	PDXJ	453	299	0.73	1.22	0.00
<u>P00547_P28369</u>	KHSE	RFH	476	435	0.95	1.22	0.00
<u>POAE67_P31678</u>	CHEY	OTSB	395	283	0.74	1.22	0.00
<u>POAF93_P21367</u>	RIDA	YCAC	336	202	0.64	1.22	0.00
<u>P36659_P52062</u>	CBPA	YGGW	684	435	0.66	1.22	0.00
<u>POA6P7_P60906</u>	ENGB	SYH	634	536	0.91	1.22	0.00
<u>P61714_P0AGGO</u>	RISB	THIL	481	369	0.78	1.22	0.00
<u>POAG16_P0AGGO</u>	PUR1	THIL	830	591	0.77	1.22	0.00
<u>P10442_P45465</u>	RNH2	YRAN	329	425	1.42	1.22	0.00
<u>P22186_P60390</u>	MRAZ	RSMH	465	1057	2.34	1.22	0.05
<u>P60546_P23839</u>	KGUA	YICC	494	707	1.45	1.22	0.00
<u>P52061_P67095</u>	RDGB	YFCE	381	229	0.65	1.22	0.00
<u>POABG4_P60390</u>	FTSW	RSMH	727	1015	1.53	1.21	0.01
<u>P07021_P09163</u>	YFIB	YJAB	307	173	0.60	1.21	0.00
<u>POA877_P30177</u>	TRPA	YBIB	588	611	1.06	1.21	0.00
<u>P67087_P45465</u>	RSMI	YRAN	417	476	1.21	1.21	0.00
<u>POA6X1_P0ACB2</u>	HEM1	HEM2	742	456	0.62	1.21	0.00
<u>POA6I9_P36647</u>	COAE	PPDD	352	231	0.68	1.21	0.00
<u>POABA0_P0ABA6</u>	ATPF	ATPG	443	1112	2.51	1.21	0.06
<u>POA9R4_P0C0L9</u>	FER	ISCX	177	139	0.79	1.21	0.00
<u>POA6G3_P0A7G6</u>	PNCC	RECA	518	503	1.03	1.21	0.00
<u>P30745_POAEZ9</u>	MOAA	MOAB	499	444	0.90	1.21	0.00
<u>POA6T3_P09147</u>	GAL1	GALE	720	430	0.60	1.21	0.00
<u>POA6P1_P0A805</u>	EFTS	RRF	468	717	1.53	1.21	0.01
<u>POACK5_P69808</u>	DEOR	PTFB1	360	467	1.33	1.21	0.00
<u>P08312_P0AGJ7</u>	SYFA	TRML	484	399	0.85	1.21	0.00
<u>POABG1_P60472</u>	CDSA	UPPS	538	988	1.98	1.21	0.02
<u>POCF66_P0CF79</u>	INSE1	INSF1	387	883	2.35	1.21	0.05
<u>POAG40_P60340</u>	RIBF	TRUB	627	602	1.01	1.20	0.00
<u>P69822_P39306</u>	ULAB	ULAF	329	195	0.61	1.20	0.00
<u>POAGD7_P0A873</u>	SRP54	TRMD	708	777	1.12	1.20	0.00
<u>P00804_P00956</u>	LSPA	SYI	1102	716	0.66	1.20	0.00
<u>POA6K3_P23882</u>	DEF	FMT	484	967	2.03	1.20	0.02
<u>P30137_P76423</u>	THIE	THIM	473	471	1.05	1.20	0.00
<u>P24182_P00903</u>	ACCC	PABA	636	1321	2.20	1.20	0.03
<u>P33128_P37050</u>	ECPD	YADN	440	806	2.00	1.20	0.02
<u>POA6E4_P0A786</u>	ASSY	PYRB	758	440	0.63	1.20	0.00
<u>POA717_P0A7D1</u>	KPRS	PTH	509	742	1.48	1.20	0.00

<u>P42641_P0A7E9</u>	OBG	PYRH	631	554	0.95	1.20	0.00
<u>POA6W3_P17443</u>	MRAY	MURG	715	1032	1.46	1.20	0.00
<u>POACF4_P77712</u>	DBHB	FADM	222	138	0.63	1.20	0.00
<u>P03817_P0A8P6</u>	MIOC	XERC	445	274	0.63	1.20	0.00
<u>POA6E6_POABA0</u>	ATPE	ATPF	295	824	2.81	1.19	0.08
<u>P77265_P0ACJ5</u>	MDLA	YBAO	742	567	0.79	1.19	0.00
<u>Q46801_P77183</u>	XDHC	YAGQ	477	541	1.24	1.19	0.00
<u>P28630_P28305</u>	HOLA	PABC	612	355	0.60	1.19	0.00
<u>P33371_P0C0U4</u>	DUSC	RIMK	615	374	0.63	1.19	0.00
<u>POAEZ9_P30748</u>	MOAB	MOAD	251	210	0.84	1.19	0.00
<u>P37655_P0A6U3</u>	BCSQ	MNMG	879	612	0.71	1.19	0.00
<u>POABG1_P0A7E9</u>	CDSA	PYRH	526	960	1.90	1.19	0.01
<u>P18335_P09126</u>	ARGD	HEM4	652	432	0.70	1.19	0.00
<u>POA6C8_P0A786</u>	ARGB	PYRB	569	482	0.87	1.19	0.00
<u>P23893_P06983</u>	GSA	HEM3	739	469	0.64	1.19	0.00
<u>POA8D0_P25539</u>	NRDR	RIBD	516	398	0.79	1.19	0.00
<u>P08622_P0A6Y8</u>	DNAJ	DNAK	1014	874	0.86	1.19	0.00
<u>P52061_P0CG19</u>	RDGB	RNPH	425	605	1.43	1.19	0.00
<u>P32662_P0AG07</u>	GPH	RPE	477	346	0.77	1.19	0.00
<u>POA6E4_P77581</u>	ASSY	ASTC	853	514	0.65	1.19	0.00
<u>P24182_P05020</u>	ACCC	PYRC	797	533	0.71	1.19	0.00
<u>POACF0_P39304</u>	DBHA	ULAD	306	191	0.68	1.19	0.00
<u>POACD4_P39298</u>	NIFU	YJFP	377	218	0.61	1.19	0.00
<u>POA9R7_P16685</u>	FTSE	PHNG	372	219	0.60	1.19	0.00
<u>P76082_P76083</u>	PAAF	PAAH	730	523	0.73	1.19	0.00
<u>POA8J8_P0AFN6</u>	RHLB	YADH	677	388	0.62	1.18	0.00
<u>P77211_P52600</u>	CUSC	EMRY	969	819	0.87	1.18	0.00
<u>P69681_P0AC55</u>	AMTB	GLNK	540	902	1.75	1.18	0.01
<u>P42909_P42911</u>	PTPB1	PTPD	421	680	1.65	1.18	0.01
<u>POA6P7_P0A6I0</u>	ENGB	KCY	437	446	1.16	1.18	0.00
<u>P60584_P76083</u>	CAIA	PAAH	855	718	0.86	1.18	0.00
<u>P22255_P0AGJ7</u>	CYSQ	TRML	403	377	0.98	1.18	0.00
<u>POACT2_P0AC62</u>	ENVR	GLRX3	303	173	0.61	1.18	0.00
<u>P30125_P0A6A6</u>	LEU3	LEUC	829	939	1.14	1.18	0.00
<u>P06989_P10371</u>	HIS2	HIS4	448	414	0.95	1.18	0.00
<u>POA6Q6_P21645</u>	FABZ	LPXD	492	567	1.18	1.18	0.00
<u>POACC1_P0A7I0</u>	PRMC	RF1	637	1089	1.72	1.17	0.01
<u>POA6V5_P0AD30</u>	GLPE	YFCA	377	451	1.29	1.17	0.00
<u>P08192_P21888</u>	FOLC	SYC	883	483	0.63	1.17	0.00
<u>POAAP3_P0A6V5</u>	FRMR	GLPE	199	206	1.08	1.17	0.00
<u>POA707_P0A8M3</u>	IF3	SYT	822	570	0.71	1.17	0.00
<u>P05041_P30177</u>	PABB	YBIB	773	814	1.08	1.17	0.00
<u>POA9K7_P07654</u>	PHOU	PSTA	537	1107	2.26	1.17	0.02
<u>P77581_P76145</u>	ASTC	TAM	658	482	0.76	1.17	0.00
<u>POACK5_P32672</u>	DEOR	PTFC2	611	444	0.77	1.17	0.00
<u>POA7Y8_P0A8C8</u>	RNPA	YIDD	204	642	3.42	1.17	0.10
<u>POABQ0_P0A780</u>	COABC	NUSB	545	343	0.66	1.17	0.00
<u>P07330_P07364</u>	CHEB	CHER	635	881	1.45	1.17	0.00
<u>POAED7_P0A786</u>	DAPE	PYRB	686	539	0.80	1.17	0.00
<u>POAG18_P09029</u>	PURE	PURK	524	1219	2.45	1.17	0.03
<u>P22731_P0ADU2</u>	LIVF	YGIN	341	539	1.65	1.17	0.00
<u>POAC13_P31120</u>	DHPS	GLMM	727	431	0.60	1.17	0.00

<u>P0A6A8</u>	<u>P0A6Q6</u>	ACP	FABZ	229	215	0.99	1.17	0.00
<u>P31057</u>	<u>P31663</u>	PANB	PANC	547	554	1.02	1.17	0.00
<u>POAD68</u>	<u>P0A6W3</u>	FTSI	MRAY	948	1073	1.18	1.17	0.00
<u>POC0U4</u>	<u>POAGL7</u>	RIMK	RSME	543	320	0.60	1.16	0.00
<u>P17443</u>	<u>P60390</u>	MURG	RSMH	668	980	1.50	1.16	0.00
<u>POA9K7</u>	<u>P0AG82</u>	PHOU	PSTS	587	492	0.92	1.16	0.00
<u>P31547</u>	<u>POAC65</u>	METI	NRDH	298	226	0.81	1.16	0.00
<u>POABG1</u>	<u>P45568</u>	CDSA	DXR	683	920	1.39	1.16	0.00
<u>P25539</u>	<u>P61714</u>	RIBD	RISB	523	786	1.54	1.16	0.00
<u>P31801</u>	<u>POACZ4</u>	CHAA	EVGA	570	339	0.62	1.16	0.00
<u>P16692</u>	<u>P76049</u>	PHNP	YCJY	558	355	0.66	1.16	0.00
<u>P76256</u>	<u>P76319</u>	YEAZ	YEDL	390	710	1.91	1.16	0.01
<u>P37617</u>	<u>POAAP3</u>	ATZN	FRMR	823	558	0.72	1.16	0.00
<u>POABG4</u>	<u>P17952</u>	FTSW	MURC	905	1360	1.68	1.16	0.00
<u>Q47690</u>	<u>P27833</u>	MMUM	RFFA	686	481	0.73	1.16	0.00
<u>POAFU8</u>	<u>P68398</u>	RISA	TADA	380	812	2.43	1.16	0.03
<u>P31224</u>	<u>POACS9</u>	ACRB	ACRR	1264	1488	1.22	1.15	0.00
<u>P30125</u>	<u>P30126</u>	LEU3	LEUD	564	593	1.07	1.15	0.00
<u>P77218</u>	<u>P11868</u>	EUTD	TDCD	740	855	1.20	1.15	0.00
<u>P30128</u>	<u>POA944</u>	GREB	RIMI	306	263	0.87	1.15	0.00
<u>P28369</u>	<u>POAFR4</u>	RFH	YCIO	372	502	1.39	1.15	0.00
<u>P22186</u>	<u>P17443</u>	MRAZ	MURG	507	827	1.67	1.15	0.00
<u>P37309</u>	<u>POaab2</u>	ARSR	WZB	264	359	1.51	1.15	0.00
<u>POABA4</u>	<u>P68699</u>	ATPD	ATPL	256	943	3.73	1.15	0.10
<u>POAB83</u>	<u>POA8W2</u>	END3	SLYA	355	207	0.60	1.15	0.00
<u>POA700</u>	<u>P24192</u>	HYPa	HYPD	489	342	0.71	1.15	0.00
<u>P23898</u>	<u>P76204</u>	NLPC	YDIV	391	237	0.63	1.15	0.00
<u>POAE18</u>	<u>POA7z4</u>	MAP1	RPOA	593	518	0.93	1.15	0.00
<u>P10442</u>	<u>POA873</u>	RNH2	TRMD	453	421	0.98	1.14	0.00
<u>POACH5</u>	<u>P0AA60</u>	MARA	YGHB	346	274	0.84	1.14	0.00
<u>P07004</u>	<u>POA7B5</u>	PROA	PROB	784	638	0.82	1.14	0.00
<u>POAFP9</u>	<u>POACU0</u>	YBHR	YBIH	591	386	0.67	1.14	0.00
<u>P31456</u>	<u>POAE18</u>	CBRA	MAP1	618	591	1.00	1.14	0.00
<u>POABF8</u>	<u>POA6G3</u>	PGSA	PNCC	347	395	1.20	1.14	0.00
<u>POAFD1</u>	<u>POAFE0</u>	NUOE	NUOJ	350	586	1.79	1.14	0.00
<u>P60595</u>	<u>Q46806</u>	HIS5	PHYDA	657	737	1.20	1.14	0.00
<u>P69808</u>	<u>POA9N0</u>	PTFB1	PTSO	198	272	1.42	1.13	0.00
<u>POA6P1</u>	<u>POA7E9</u>	EFTS	PYRH	524	682	1.32	1.13	0.00
<u>POAEW4</u>	<u>POAFR9</u>	CPDA	YDCV	539	304	0.61	1.13	0.00
<u>P32672</u>	<u>P69824</u>	PTFC2	PTMA	506	549	1.16	1.13	0.00
<u>POAEF4</u>	<u>POABF8</u>	DPIA	PGSA	408	276	0.72	1.13	0.00
<u>POAG82</u>	<u>P33360</u>	PSTS	YEHX	654	644	1.16	1.13	0.00
<u>P69931</u>	<u>P20083</u>	HDA	PARE	863	663	0.79	1.13	0.00
<u>POAC16</u>	<u>P26281</u>	FOLB	HPPK	281	551	2.00	1.13	0.01
<u>POA786</u>	<u>P05020</u>	PYRB	PYRC	659	939	1.48	1.13	0.00
<u>P08179</u>	<u>P15639</u>	PUR3	PUR9	741	460	0.65	1.13	0.00
<u>POA6P1</u>	<u>P60472</u>	EFTS	UPPS	536	528	1.03	1.13	0.00
<u>P37309</u>	<u>P39836</u>	ARSR	YFEH	449	307	0.75	1.13	0.00
<u>P12995</u>	<u>P12998</u>	BIOA	BIOF	813	746	0.94	1.12	0.00
<u>P08192</u>	<u>P17443</u>	FOLC	MURG	777	1188	1.69	1.12	0.00
<u>P24216</u>	<u>P26608</u>	FLID	FLIS	604	551	0.93	1.12	0.00
<u>POABB4</u>	<u>POABA6</u>	ATPB	ATPG	747	1203	1.61	1.12	0.00

<u>POAGF6_P30177</u>	TDCB	YBIB	649	630	1.00	1.12	0.00
<u>POABA0_P68699</u>	ATPF	ATPL	235	919	4.01	1.12	0.08
<u>P24182_P08178</u>	ACCC	PUR5	794	477	0.66	1.12	0.00
<u>P60595_P0AA43</u>	HIS5	RSUA	427	643	1.57	1.12	0.00
<u>Q46893_P62617</u>	ISPD	ISPF	395	650	1.71	1.12	0.00
<u>POAB83_P75811</u>	END3	YBJK	389	245	0.65	1.11	0.00
<u>P52599_P52600</u>	EMRK	EMRY	899	965	1.13	1.11	0.00
<u>POABG4_P17443</u>	FTSW	MURG	769	1089	1.54	1.11	0.00
<u>P10371_P06988</u>	HIS4	HISX	679	721	1.08	1.11	0.00
<u>POA944_P46852</u>	RIMI	YHHW	379	242	0.65	1.11	0.00
<u>POAC13_P26281</u>	DHPS	HPPK	441	552	1.28	1.11	0.00
<u>POaab2_P39836</u>	WZB	YFEH	479	473	1.08	1.11	0.00
<u>POAEK2_P27247</u>	FABG	PLSX	600	584	1.02	1.11	0.00
<u>P23898_P33360</u>	NLPC	YEHX	462	344	0.89	1.11	0.00
<u>P06986_P06988</u>	HIS8	HISX	790	791	1.02	1.10	0.00
<u>P36562_P0AE76</u>	COBT	COBU	540	515	0.98	1.10	0.00
<u>P00903_P0A786</u>	PABA	PYRB	498	659	1.36	1.10	0.00
<u>P68699_Q46810</u>	ATPL	MOCA	271	195	0.74	1.10	0.00
<u>P51025_P52048</u>	SFGH1	YGGP	702	423	0.69	1.10	0.00
<u>POA6Y1_P23721</u>	IHFb	SERC	456	391	0.86	1.10	0.00
<u>POAAT6_P0A752</u>	IOJAP	NADD	318	919	2.90	1.10	0.02
<u>P07862_P0A6W3</u>	DDLb	MRAY	666	592	0.90	1.10	0.00
<u>P36561_P36562</u>	COBS	COBT	606	636	1.07	1.09	0.00
<u>P31456_P76004</u>	CBRA	YCGM	573	568	1.10	1.09	0.00
<u>P38101_P0A8J8</u>	EAMB	RHLB	616	384	0.67	1.09	0.00
<u>POABA4_P0ABA6</u>	ATPD	ATPG	464	1259	2.72	1.09	0.02
<u>P30137_P30139</u>	THIE	THIG	467	612	1.36	1.09	0.00
<u>POAEZ1_P27833</u>	METF	RFFA	672	427	0.68	1.09	0.00
<u>POA6C8_P11446</u>	ARGB	ARGC	592	749	1.28	1.09	0.00
<u>POC093_P76362</u>	SLMA	YEES	346	228	0.69	1.08	0.00
<u>P21507_P0AGJ7</u>	SRMB	TRML	601	338	0.64	1.08	0.00
<u>Q46890_Q46891</u>	YGBL	YGBM	470	408	0.88	1.08	0.00
<u>POA6T9_P27248</u>	GCSH	GCST	493	749	1.54	1.08	0.00
<u>POA6B7_P0ACD4</u>	ISCS	NIFU	532	1169	2.29	1.08	0.01
<u>POAFA9_P45579</u>	NIKC	YBDH	639	398	0.65	1.08	0.00
<u>P07330_P0A964</u>	CHEB	CHEW	516	894	1.82	1.08	0.00
<u>P23882_P36929</u>	FMT	RSMB	744	871	1.19	1.08	0.00
<u>P22186_P22188</u>	MRAZ	MURE	647	1092	1.71	1.08	0.00
<u>POA6L2_P04036</u>	DAPA	DAPB	565	541	0.98	1.08	0.00
<u>POABQ4_P0A884</u>	DYR	TYSY	423	739	1.75	1.08	0.00
<u>P31663_P0A790</u>	PANC	PAND	409	533	1.32	1.08	0.00
<u>POA6L2_P08390</u>	DAPA	USG	629	379	0.61	1.07	0.00
<u>P75745_P75746</u>	YBGK	YBGL	554	757	1.38	1.07	0.00
<u>POAE67_P67826</u>	CHEY	CUTC	377	258	0.71	1.07	0.00
<u>P69441_P0AE18</u>	KAD	MAP1	478	552	1.21	1.07	0.00
<u>P27859_P42589</u>	TATD	YGJH	370	306	0.85	1.07	0.00
<u>POACFO_P0A9L5</u>	DBHA	PPIC	183	362	2.01	1.07	0.00
<u>P27859_P0A8Y3</u>	TATD	YIHX	459	288	0.65	1.07	0.00
<u>P11988_P69783</u>	BGLB	PTGA	639	469	0.78	1.07	0.00
<u>P77488_P22939</u>	DXS	ISPA	919	758	0.83	1.07	0.00
<u>P23893_P0ACB2</u>	GSA	HEM2	750	446	0.60	1.07	0.00
<u>P12996_P12998</u>	BIOB	BIOF	730	568	0.79	1.07	0.00

<u>P42911_P36881</u>	PTPD	YADI	409	623	1.59	1.06	0.00
<u>P37655_POA6U5</u>	BCSQ	RSMG	457	848	1.92	1.06	0.00
<u>POA7E9_P60472</u>	PYRH	UPPS	494	807	1.73	1.06	0.00
<u>P60844_P40874</u>	AQPZ	MTOX	603	450	0.77	1.06	0.00
<u>P69222_POAE18</u>	IF1	MAP1	336	556	1.74	1.06	0.00
<u>P07862_P60390</u>	DDLB	RSMH	619	524	0.87	1.06	0.00
<u>P05852_P76319</u>	GCP	YEDL	496	488	1.02	1.06	0.00
<u>POA7H6_POA8B5</u>	RECR	YBAB	310	828	2.74	1.05	0.01
<u>POA9B2_POA858</u>	G3P1	TPIS	586	514	0.89	1.05	0.00
<u>POAEN1_POA786</u>	FRE	PYRB	544	396	0.75	1.05	0.00
<u>P45568_P60472</u>	DXR	UPPS	651	778	1.25	1.04	0.00
<u>POAB77_P07913</u>	KBL	TDH	739	593	0.81	1.04	0.00
<u>POABW0_P77650</u>	HCAC	HCAD	506	846	1.70	1.04	0.00
<u>POA799_POA858</u>	PGK	TPIS	642	523	0.83	1.03	0.00
<u>POA6C8_P18335</u>	ARGB	ARGD	664	731	1.13	1.03	0.00
<u>POAE67_POADU5</u>	CHEY	YGIW	259	200	0.80	1.03	0.00
<u>POAAI9_POA6R0</u>	FABD	FABH	626	975	1.56	1.03	0.00
<u>P30745_POA738</u>	MOAA	MOAC	490	531	1.10	1.03	0.00
<u>POA7E9_POA805</u>	PYRH	RRF	426	1071	2.55	1.03	0.01
<u>POA7G2_P60340</u>	RBFA	TRUB	447	974	2.30	1.03	0.00
<u>PO8192_POABG7</u>	FOLC	RODA	792	1164	1.64	1.02	0.00
<u>P42905_P36881</u>	PTPC2	YADI	279	660	2.51	1.02	0.01
<u>POA7J0_P68398</u>	RIBB	TADA	384	687	2.01	1.02	0.00
<u>PO8192_POA6W3</u>	FOLC	MRAY	782	1073	1.50	1.02	0.00
<u>P37664_POAF67</u>	YIAC	YJEE	299	593	2.05	1.02	0.00
<u>P76083_P0C7L2</u>	PAAH	PAAJ	876	1014	1.21	1.02	0.00
<u>P24182_P08179</u>	ACCC	PUR3	661	712	1.18	1.02	0.00
<u>P64606_P33360</u>	MLAE	YEHX	568	995	2.01	1.02	0.00
<u>P16700_P16701</u>	CYSP	CYST	615	1285	2.23	1.02	0.00
<u>POA7I7_POAFU8</u>	RIBA	RISA	409	740	1.90	1.01	0.00
<u>POAEL3_P39901</u>	FEOA	YBFI	140	195	1.47	1.01	0.00
<u>POA7I7_P61714</u>	RIBA	RISB	352	737	2.12	1.01	0.00
<u>POABZ4_P63386</u>	KDSC	MLAF	457	522	1.23	1.01	0.00
<u>POA7J0_POAFU8</u>	RIBB	RISA	430	736	1.85	1.01	0.00
<u>P77444_P76145</u>	SUFS	TAM	658	883	1.45	1.00	0.00
<u>P24240_P69791</u>	ASCB	PTQA	590	386	0.68	1.00	0.00
<u>P66817_P45469</u>	DIAA	YRAR	407	387	0.98	1.00	0.00
<u>P36879_P75777</u>	YADG	YBHG	640	623	0.99	1.00	0.00
<u>P18335_POA786</u>	ARGD	PYRB	717	922	1.34	1.00	0.00
<u>P31456_P37666</u>	CBRA	GHRB	678	534	0.81	1.00	0.00
<u>POA7I7_P68398</u>	RIBA	TADA	363	726	2.17	1.00	0.00
<u>POAE52_POA6L2</u>	BCP	DAPA	448	382	0.86	0.99	0.00
<u>POADC3_P75830</u>	LOLC	MACA	770	1909	2.61	0.99	0.00
<u>P60584_P60566</u>	CAIA	FIXA	636	670	1.07	0.99	0.00
<u>POAfp4_POA729</u>	YBBO	YCEF	463	638	1.52	0.98	0.00
<u>P33593_POAB55</u>	NIKD	YCII	352	334	1.00	0.98	0.00
<u>POAFD4_POAFFO</u>	NUOH	NUON	810	1488	2.06	0.98	0.00
<u>PO8192_POCOU4</u>	FOLC	RIMK	722	989	1.47	0.98	0.00
<u>POAD68_P22188</u>	FTSI	MURE	1083	1199	1.16	0.97	0.00
<u>POAD68_P22186</u>	FTSI	MRAZ	740	915	1.31	0.97	0.00
<u>POAD68_P60390</u>	FTSI	RSMH	901	1172	1.38	0.97	0.00
<u>POAEF4_P75966</u>	DPIA	RLUE	443	304	0.79	0.96	0.00

<u>POAF63_P23721</u>	NSRR	SERC	503	804	1.68	0.96	0.00
<u>PO9099_POAGI4</u>	XYLB	XYLH	877	817	1.00	0.96	0.00
<u>POACR4_P62723</u>	YEIE	YEIH	642	652	1.05	0.96	0.00
<u>POA7X6_POA873</u>	RIMM	TRMD	437	1087	2.64	0.96	0.00
<u>P76422_P30137</u>	THID	THIE	477	711	1.55	0.96	0.00
<u>P39265_P32720</u>	ALSB	ALSC	637	3856	6.59	0.95	0.01
<u>POAEK2_POA720</u>	FABG	KTHY	457	524	1.17	0.95	0.00
<u>POAGG2_P77279</u>	TESB	YBBL	511	460	0.92	0.95	0.00
<u>POA9U8_P77378</u>	YDIO	YDIR	695	683	0.99	0.95	0.00
<u>P40874_P09099</u>	MTOX	XYLB	856	1074	1.29	0.94	0.00
<u>P75938_P77726</u>	FLGF	YAJR	705	383	0.61	0.94	0.00
<u>P11988_P11989</u>	BGLB	BGLG	748	496	0.68	0.94	0.00
<u>POA9B6_POA799</u>	E4PD	PGK	726	788	1.10	0.94	0.00
<u>P39265_P08192</u>	ALSB	FOLC	733	437	0.64	0.94	0.00
<u>P24240_P69795</u>	ASCB	PTQB	580	359	0.64	0.93	0.00
<u>POABU0_P17109</u>	MENB	MEND	841	777	0.95	0.92	0.00
<u>P39315_POACN2</u>	QOR2	YTFH	412	733	1.86	0.92	0.00
<u>POA6G7_POA850</u>	CLPP	TIG	639	1047	1.68	0.92	0.00
<u>POA6A8_POAA19</u>	ACP	FABD	387	965	2.51	0.92	0.00
<u>POA7J0_P61714</u>	RIBB	RISB	373	722	2.03	0.91	0.00
<u>POACU2_P37683</u>	RUTR	YIAV	590	672	1.29	0.91	0.00
<u>P30750_P28635</u>	METN	METQ	614	878	1.45	0.91	0.00
<u>P08179_P08178</u>	PUR3	PUR5	557	848	1.54	0.91	0.00
<u>P33931_P61316</u>	CCMA	LOLA	410	359	0.89	0.90	0.00
<u>POA6W3_P60390</u>	MRAY	RSMH	673	1146	1.73	0.90	0.00
<u>POA6W3_P11880</u>	MRAY	MURF	812	1400	1.74	0.90	0.00
<u>P08957_P05719</u>	T1MK	T1SK	993	1011	1.13	0.88	0.00
<u>P17952_P17443</u>	MURC	MURG	846	1307	1.62	0.88	0.00
<u>POAFU8_P61714</u>	RISA	RISB	369	761	2.18	0.88	0.00
<u>P00903_P30177</u>	PABA	YBIB	507	915	1.84	0.87	0.00
<u>P37744_P37745</u>	RMLA1	RMLC	478	1165	2.50	0.87	0.00
<u>P39832_POA9X1</u>	ZNUB	ZNUC	512	2338	4.94	0.87	0.00
<u>P08179_POAGGO</u>	PUR3	THIL	537	923	1.83	0.87	0.00
<u>P10371_P60595</u>	HIS4	HIS5	441	1294	2.96	0.87	0.00
<u>P38101_P31437</u>	EAMB	YICL	502	911	1.89	0.86	0.00
<u>P24180_POACT2</u>	ACRE	ENVR	605	1699	3.02	0.85	0.00
<u>P37685_P17444</u>	ALDB	BETA	1068	1001	0.99	0.84	0.00
<u>POA6A8_POAA15</u>	ACP	FABF	491	1242	2.55	0.80	0.00
<u>P38054_P77211</u>	CUSA	CUSC	1504	3101	2.11	0.80	0.00
<u>POAEM9_POAFT2</u>	FLIY	YECS	488	4835	10.70	0.74	0.00
<u>P37636_P37637</u>	MDTE	MDTF	1422	5631	4.10	0.72	0.00
<u>POAEX7_P04816</u>	LIVH	LIVK	677	3300	5.11	0.68	0.00
<u>P77257_P76142</u>	LSRA	LSRB	851	2221	2.86	0.59	0.00
<u>P30844_P39901</u>	BASS	YBFI	428	6075	16.97	0.57	0.00
<u>P16678_P33913</u>	PHNK	YEJA	856	3957	5.02	0.51	0.00
<u>POAE67_P77519</u>	CHEY	YDDL	225	292	1.35	0.00	0.00
<u>POAGH5_POAAH8</u>	SAPC	SAPF	564	6314	11.96	0.00	0.00

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