

Well	Description	Symbol	PBS1	PBS2	PBS3	PBS4	PBS5	WT BL1	WT BL2	WT BL3	WT BL4	WT BL5	KO P1	KO P2	KO P3	KO P4	KO P5	KO P6	KO B1	KO B2	KO B3	KO B4	KO B5	KO B6	
A1	Autocrine motility factor receptor	Amfr	27.347	29.0099	32.0791	35.4456	33.8213	23.9627	29.1232	33.0459	28.6636	33.6926	30.1296	28.6292	23.1652	30.5233	30.2036	29.2847	28.309	28.8919	29.8963	26.5866	30.6201	33.5771	
A2	Activating transcription factor 4	Atf4	27.6324	29.8462	33.0292	Undetermi	32.2575	23.4931	28.1994	33.3132	27.1669	36.0736	35.6142	29.3119	22.8506	30.204	31.0707	28.3027	28.3027	30.1533	29.544	31.5253	27.3244	31.4533	34.3378
A3	Activating transcription factor 6	Atf6	30.6858	33.8158	35.2517	Undetermi	34.2821	25.7105	31.0448	Undetermi	31.0971	33.8125	36.1993	31.4189	23.9698	33.8803	32.415	31.5284	32.6411	32.6604	32.8744	30.5934	34.2383	Undetermi	34.3378
A4	Activating transcription factor 6 beta	Atf6b	28.2731	30.5977	33.5794	Undetermi	36.0709	24.6562	30.0925	36.0939	30.0301	36.4646	34.3944	30.4123	24.0568	32.0397	31.9601	30.1225	30.0089	30.0524	32.1208	28.1342	31.2488	36.3288	34.3378
A5	Ataxin 3	Atxn3	28.2732	29.5044	31.8484	Undetermi	32.6976	25.3297	29.5109	32.1192	29.5842	33.795	34.789	30.0159	24.3014	30.0667	30.7807	29.5578	29.4803	29.9014	30.8456	27.9744	31.2464	Undetermi	34.3378
A6	Bcl2-associated X protein	Bax	25.5662	26.6606	28.824	34.2766	29.9186	23.1583	26.5906	28.8738	26.5204	29.3302	31.1002	27.0218	22.6532	27.2715	27.4301	27.2552	26.0523	26.2957	27.3955	24.9451	27.2786	29.5552	34.3378
A7	Calreticulin	Calr	22.2761	23.7861	25.0094	30.3302	25.8485	20.2546	23.1907	24.3385	23.1597	25.8472	27.3754	23.6095	20.1032	24.0322	23.8993	23.4947	23.0293	22.9475	24.4657	21.9417	24.2787	25.8044	34.3378
A8	Calnexin	Canx	25.1959	27.7004	29.7244	37.5352	30.6371	21.084	26.4694	30.8084	25.2473	32.1965	31.1554	27.0656	20.3055	27.7751	27.7358	26.3036	27.4218	26.6377	28.0283	24.7493	28.5047	31.484	34.3378
A9	Chaperonin containing Tcp1, subunit 1	Cct4	26.3697	28.4098	31.6773	Undetermi	31.0914	22.6059	27.4993	31.5166	27.1721	33.0141	35.2403	28.225	21.5038	29.0522	29.3458	27.6074	28.3685	28.2112	29.4094	26.1566	30.0194	33.7686	34.3378
A10	Chaperonin containing Tcp1, subunit 2	Cct7	27.5765	29.307	31.672	37.77	31.319	22.6476	29.1901	31.7565	27.7268	34.916	31.4383	29.0588	21.5453	28.5869	29.6759	28.3471	28.9319	28.4742	30.0738	27.342	30.1213	32.5752	34.3378
A11	CCAAT/enhancer binding protein 1	Cebpb	26.458	28.4654	31.2374	34.4445	32.2045	23.1918	27.984	31.1429	27.2715	33.0735	29.7396	28.0534	21.9575	29.514	29.3618	28.0563	28.0693	27.606	29.1343	26.1784	29.7583	33.5359	34.3378
A12	CAMP responsive element binding protein 3	Creb3	26.0471	27.0262	29.4459	33.0867	30.5103	24.2418	27.7441	29.7412	27.3391	30.3803	30.4877	27.4176	23.9312	27.829	28.4601	28.0073	27.1983	27.0092	27.8048	25.8265	28.1596	30.3303	34.3378
B1	CAMP responsive element binding protein 3	Creb3l3	33.262	Undetermi	Undetermi	Undetermi	Undetermi	31.9323	36.2675	Undetermi	37.0785	Undetermi	Undetermi	Undetermi	32.3981	Undetermi	39.1141	35.6675	Undetermi	38.5902	Undetermi	Undetermi	37.7817	Undetermi	34.3378
B2	DNA-damage inducible transcription factor 3	Ddit3	27.5381	29.6683	31.1124	38.684	33.4813	25.1024	28.537	33.0175	29.9127	32.1633	34.7896	29.5905	24.1732	30.533	30.3626	29.1276	29.3449	29.293	30.904	28.1568	31.9694	33.2036	34.3378
B3	Der1-like domain family, member 1	Der1	30.2324	35.0487	Undetermi	Undetermi	Undetermi	27.3953	31.2979	Undetermi	30.4386	Undetermi	38.0282	32.3238	27.82	34.6719	32.9546	31.2341	33.0363	Undetermi	34.7615	29.8935	35.9829	Undetermi	34.3378
B4	Der1-like domain family, member 2	Der2	27.4296	37.0988	Undetermi	Undetermi	Undetermi	28.2375	33.0591	Undetermi	32.5655	39.8746	Undetermi	34.8169	28.237	39.0218	36.3277	32.9606	35.3215	35.2442	38.6102	Undetermi	38.2905	Undetermi	34.3378
B5	DnaJ (Hsp40) homolog, subfamily 1	DnaJb2	32.3931	30.1072	33.5956	Undetermi	34.4823	24.1486	30.135	34.9052	29.6392	36.993	35.1167	29.1888	23.0955	30.2102	30.1646	29.0284	30.3006	29.5283	31.2976	27.5482	32.0309	35.3323	34.3378
B6	DnaJ (Hsp40) homolog, subfamily 2	DnaJb9	28.7463	31.9789	34.6999	39.4918	35.4211	24.4019	31.1252	34.2104	30.0894	35.2857	32.5021	31.01	22.8468	31.7977	31.456	30.4193	31.5616	30.4763	32.4904	29.1443	32.3462	35.655	34.3378
B7	DnaJ (Hsp40) homolog, subfamily 3	DnaJc10	27.9123	30.296	32.9717	38.6512	32.4841	23.53	28.8716	38.5342	27.6534	35.2554	33.9827	29.3065	22.6268	31.0786	29.9419	28.8366	29.6654	29.2955	30.8014	27.0265	31.893	34.449	34.3378
B8	DnaJ (Hsp40) homolog, subfamily 4	DnaJc3	28.0596	30.5637	33.2824	38.2983	33.5922	23.1476	29.446	34.1462	27.8864	35.9922	30.5845	30.1485	22.0859	30.1125	30.6297	29.0813	30.1854	29.7099	31.8995	28.0034	32.268	35.2275	34.3378
B9	DnaJ (Hsp40) homolog, subfamily 5	DnaJc4	29.2052	32.2189	35.7569	39.0596	34.7554	26.2514	30.9429	36.0363	30.7189	36.7782	33.8	31.4405	25.4446	32.4678	31.7022	31.0147	30.9106	30.5989	32.2848	29.066	33.9181	35.72	34.3378
B10	ER degradation enhancer, mannosidase 1	Edem1	26.8754	28.8711	31.1569	35.7372	32.3912	24.0173	28.005	31.2364	28.0346	32.3758	31.31	28.4828	23.2983	30.1289	29.1969	28.3279	28.0307	28.0369	29.5053	26.5529	30.2819	32.2665	34.3378
B11	ER degradation enhancer, mannosidase 2	Edem3	27.5433	30.0317	33.3502	36.1287	34.1093	24.4394	29.0185	33.3914	28.8506	33.0319	31.2337	29.7759	23.7053	31.1429	30.2188	29.1662	29.7769	28.555	30.7368	27.1831	31.0146	34.4852	34.3378
B12	Eukaryotic translation initiation factor 3	Eif2a	29.6319	30.8967	34.3999	38.8116	33.1574	25.1808	31.9749	34.2311	31.2796	36.1998	33.4952	31.3381	23.8377	31.0686	32.2395	31.3945	30.4437	30.0518	31.5132	29.3639	31.6558	35.2589	34.3378
C1	Eukaryotic translation initiation factor 3	Eif2ak3	28.2574	30.556	31.932	35.8155	33.6622	25.2627	29.6985	32.8439	29.4971	34.1195	31.9869	30.0207	24.6122	31.3409	30.4095	29.6445	29.8074	29.3999	30.7525	27.0623	31.7183	33.815	34.3378
C2	Endoplasmic reticulum (ER) to nucleus	Ern1	27.8312	29.8743	33.0983	37.2557	33.7494	25.0269	28.6675	33.1869	28.5758	31.5632	32.0161	29.5906	24.1229	32.5018	30.1778	28.7455	29.5776	29.4986	30.341	27.3262	31.8417	34.1292	34.3378
C3	Endoplasmic reticulum (ER) to nucleus	Ern2	30.9973	34.2062	Undetermi	Undetermi	Undetermi	30.2344	32.6249	Undetermi	Undetermi	35.2266	37.1314	35.258	29.0841	Undetermi	Undetermi	33.1403	33.3098	32.9888	33.6217	32.5081	33.3915	Undetermi	34.3378
C4	ERO1-like (S. cerevisiae)	Ero1l	28.5607	30.257	32.7114	38.2466	34.0104	24.8797	29.5957	35.4086	29.0764	Undetermi	32.6027	29.8408	24.0362	31.6627	31.328	29.8826	30.0995	31.0841	31.2893	28.1732	32.1403	33.7269	34.3378
C5	ERO1-like beta (S. cerevisiae)	Ero1lb	28.1719	30.1219	34.0117	38.0393	33.4895	25.2488	30.2156	35.8387	30.6638	32.8419	34.1885	30.2515	24.6013	31.1033	30.4395	30.1771	30.2237	29.882	30.5024	28.2398	31.5101	Undetermi	34.3378
C6	Endoplasmic reticulum protein 44	Erp44	26.8819	29.3443	31.2308	38.299	33.3324	23.341	28.4329	32.0067	27.5341	33.003	31.4417	28.442	22.5427	30.2922	29.4823	28.1333	28.8842	28.4753	30.0682	26.4349	30.8783	33.8967	34.3378
C7	F-box protein 6	Fbxo6	28.4168	31.1723	32.8838	Undetermi	31.4389	24.089	30.2671	34.1986	28.398	Undetermi	34.2128	30.0172	23.0039	30.4237	30.2656	29.1499	30.06	29.4527	31.3429	28.2955	31.7477	34.8317	34.3378
C8	Alpha glucosidase 2 alpha neutral	Ganab	25.9887	28.4639	30.7048	35.8891	32.4966	22.6584	27.3127	31.8671	27.1304	33.6987	30.4984	27.798	22.1173	29.5492	28.4009	27.092	28.021	27.7214	29.3467	25.643	29.5482	33.1651	34.3378
C9	Glucosidase, alpha; neutral C	Ganc	30.6849	32.5846	Undetermi	Undetermi	Undetermi	26.7173	35.2038	Undetermi	33.1002	Undetermi	37.3872	33.5847	25.9587	32.4647	34.0158	32.1476	32.6454	31.7749	34.0016	30.9865	34.6089	Undetermi	34.3378
C10	Histocompatibility 47	Vimp	27.8129	31.2219	33.8057	Undetermi	32.7925	22.6858	28.585	35.3657	27.0655	Undetermi	32.6797	30.3302	21.6846	30.5121	30.6088	28.4752	31.0016	29.9126	31.0907	27.1899	31.8359	34.4683	34.3378
C11	Homocysteine-inducible, endoplasmic reticulum	Herpud1	30.8892	33.0852	36.5048	Undetermi	37.236	26.5898	32.4616	37.1413	32.7866	37.3203	35.7241	32.6739	24.3354	35.078	33.3551	32.8096	33.6481	31.558	34.3433	30.6168	34.7297	39.6835	34.3378
C12	Heat shock protein 1-like	Hspa1l	30.667	34.2806	Undetermi	Undetermi	34.593	28.3998	32.801	Undetermi	33.9109	Undetermi	38.1022	33.6799	28.4527	Undetermi	35.2438	32.7267	34.3277	32.2213	36.236	31.4105	39.0472	Undetermi	34.3378
D1	Heat shock protein 2	Hspa2	30.3929	29.0461	36.2444	33.8008	36.1596	25.2915	31.3964	33.0929	31.0196	33.9829	34.5719	31.4024	24.1446	32.8733	33.2935	31.2681	33.0435	31.7806	32.5981	30.353	33.3474	Undetermi	34.3378

F12	Sterol regulatory element binding f	Sreb2	32.8974	37.4216	39.3952	Undetermi	Undetermi	27.8371	34.9655	39.331	33.4667	Undetermi	36.5661	34.9019	28.0085	39.4956	35.4047	33.5554	33.6812	34.7306	37.4155	31.7453	38.1299	Undetermined
G1	Synovial apoptosis inhibitor 1, syn	Syvn1	27.3541	30.326	34.7685	37.0059	35.342	24.1846	29.0278	34.9876	29.3658	36.0765	31.8341	29.7396	23.5374	32.4496	31.3294	29.4291	29.9918	30.1557	31.3417	27.7115	32.2882	38.548
G2	T-complex protein 1	Tcp1	27.1679	29.0224	31.6681	39.5433	30.5362	23.3466	29.1201	32.0191	27.855	32.9068	33.9714	28.1396	21.866	28.7929	29.3053	28.2384	28.5242	28.4948	30.0045	27.2055	30.0277	33.4576
G3	Torsin family 1, member A (torsin	Tort1a	28.481	31.7055	34.4988	Undetermi	34.5889	25.3189	30.2477	37.1626	29.5561	36.3849	34.5427	31.0899	24.7254	32.5268	31.6988	30.6384	30.4791	30.4249	32.5174	28.5145	32.106	37.0939
G4	Ubiquitin-conjugating enzyme E2G	Ube2g2	27.102	29.2638	31.707	35.3183	31.3216	24.0298	27.8203	31.077	26.7295	32.3708	30.0945	28.2084	23.1523	29.8683	29.1887	27.8894	28.7548	28.3182	29.8707	26.4251	30.1598	32.6484
G5	Ubiquitin-conjugating enzyme E2,	Ube2j2	27.0754	29.0504	32.5061	35.6399	32.9364	24.1469	28.509	33.1333	28.1396	34.5835	30.4589	29.0873	23.3403	30.1444	30.1814	28.5965	29.4837	28.8643	30.1748	27.0205	30.9206	34.4481
G6	UBX domain protein 4	Ubxn4	28.1015	30.2439	32.8933	Undetermi	32.1544	23.3503	28.2816	32.3949	28.1755	34.2732	34.2514	30.2739	22.4168	30.4872	30.8094	28.893	30.9685	29.7136	31.0701	28.0046	33.0219	33.7375
G7	Ubiquitin fusion degradation 1 like	Ufd1l	26.7813	28.4996	31.5	35.8928	32.3756	24.2468	28.3949	32.2405	28.1567	33.0706	31.5731	28.363	23.4635	29.8764	29.351	28.6767	28.0441	28.209	29.2782	26.3463	30.0025	33.2459
G8	UDP-glucose glycoprotein glucosy	Uggt1	28.1582	30.3108	32.7488	36.8292	32.8133	24.3145	29.5186	32.9726	28.8606	32.4828	32.0594	29.5389	23.6964	31.2759	30.22	29.4806	29.3997	29.2539	30.8716	27.4634	31.0054	36.0369
G9	UDP-glucose glycoprotein glucosy	Uggt2	28.5289	31.1919	33.7653	39.0286	35.1135	27.0185	30.2549	36.5789	30.0178	35.2164	36.1636	30.8308	27.1911	32.9388	31.1944	30.4581	30.9825	30.353	32.9156	28.9894	32.2233	35.2732
G10	Ubiquitin specific peptidase 14	Usp14	27.8868	30.6352	32.0723	Undetermi	34.0621	23.9567	29.5593	32.6543	29.0698	34.4219	34.3584	29.5408	23.2692	30.0833	30.6758	29.2939	29.4226	28.873	30.7908	27.5368	30.7155	36.0103
G11	Valosin containing protein	Vcp	26.8125	28.7536	32.0972	36.3905	32.334	22.5056	27.7381	31.6268	26.9011	32.2739	29.5187	28.4642	21.6848	29.1158	29.3403	27.7911	28.6547	28.1984	30.0863	26.3379	30.6997	33.5359
G12	X-box binding protein 1	Xbp1	26.1591	28.3528	32.1057	36.6194	32.9563	22.2804	27.8455	31.9146	27.3545	35.3619	31.0434	28.0241	21.3034	29.4691	29.355	28.0199	28.3671	27.5741	29.437	26.1022	30.1993	32.7976
H1	Actin, beta	Actb	22.3849	23.9464	26.237	32.6444	26.1282	17.7477	23.5677	26.0287	22.1471	27.9864	26.6959	24.132	17.2082	23.8895	24.4411	23.1775	23.7993	23.2621	25.0607	22.1265	25.0352	27.8759
H2	Beta-2 microglobulin	B2m	24.5929	26.3738	28.7284	37.1469	28.491	19.0653	26.1115	28.8446	24.7467	31.0986	30.1517	26.1707	17.8939	25.5829	26.3967	25.2535	26.1869	25.421	26.9824	24.3031	27.5673	31.0629
H3	Glyceraldehyde-3-phosphate dehy	Gapdh	26.0487	28.3302	31.1202	37.1374	31.4503	22.7496	28.4869	30.7434	27.5771	32.4269	31.6234	27.5075	21.2324	28.4421	29.2692	28.3926	28.0623	27.2331	29.2492	26.3394	29.2754	33.0977
H4	Glucuronidase, beta	Gusb	27.4223	29.6093	32.5505	35.6199	34.1936	24.2778	29.1916	32.6853	27.8107	34.8023	30.8966	29.2358	23.7262	30.8166	30.3281	28.958	29.0637	29.1598	30.7383	26.8739	31.2872	34.5392
H5	Heat shock protein 90 alpha (cytos	Hsp90ab1	23.8007	26.2887	28.7469	34.7091	28.4979	20.1073	25.3503	28.634	24.7405	30.5519	28.5997	25.7441	19.4054	26.2267	26.4982	24.989	26.1767	25.6263	27.0882	24.2587	27.2548	30.4382
H6	Mouse Genomic DNA Contaminati	MGDC	Undetermi	Undetermi	Undetermi	Undetermi	Undetermi	Undetermi	Undetermi	Undetermi	Undetermi	Undetermi	Undetermi	Undetermi	Undetermi	Undetermi	Undetermi	Undetermi	Undetermi	Undetermi	Undetermi	Undetermi	Undetermi	Undetermined
H7	Reverse Transcription Control	RTC	21.9429	22.2318	22.7304	33.1957	22.7286	21.9801	22.7852	22.7633	22.903	22.9246	33.3778	23.2534	22.2328	22.6705	22.5758	22.7112	21.8465	21.7146	22.8273	21.8722	23.1445	23.1498
H8	Reverse Transcription Control	RTC	22.0308	22.3389	22.7572	33.2317	22.8982	22.1416	22.8831	22.7711	23.0774	23.0847	33.3059	23.3382	22.3955	22.8933	22.7155	22.8679	22.0509	21.9954	23.0182	22.0174	23.2026	23.2661
H9	Reverse Transcription Control	RTC	22.0943	22.2882	22.8739	33.1632	22.883	22.071	22.9916	22.8006	23.0135	23.1678	32.9302	23.3349	22.2441	22.8557	22.7136	22.8103	21.9898	21.9148	23.0188	21.9252	23.196	23.3201
H10	Positive PCR Control	PPC	18.1018	18.1737	19.1021	30.9667	18.9872	18.1348	19.0413	19.0222	19.0906	19.3001	30.7721	19.0055	17.9677	18.0139	18.8249	19.0285	17.9627	17.7067	19.0419	17.9937	19.0661	19.0363
H11	Positive PCR Control	PPC	18.074	18.017	19.0859	30.4779	19.0385	18.0268	19.059	19.0026	19.1008	19.202	30.4943	18.7227	17.8018	18.0846	18.9068	19.0996	17.7409	17.8661	19.0283	17.9123	19.0775	19.1014
H12	Positive PCR Control	PPC	18.1084	18.087	16.959	30.3097	19.0081	17.9743	19.1058	19.052	19.109	19.1918	30.2774	18.9257	17.9791	17.9842	18.8582	19.097	17.9301	17.8966	18.9257	17.9756	19.0492	19.0804