

S1 Table Oligo DNA list

No.	Name	Oligo Sequence	Used for
1	haEIF2B3_g299541F_981	CACCGGCGAATGAACGAGGTAATTG	Construction for an sgRNA/Cas9 plasmid targeting EIF2B3
2	haEIF2B3_g299541R_982	AAACCAATTACCTCGTTTCATTCGCC	Construction for an sgRNA/Cas9 plasmid targeting EIF2B3
3	haEIF2B3_Int_S_SacI_977	GAAGAGTCCAAAGCATCCATGCTAT	Construction for an EIF2B3_3XFLAG repair template
4	haEIF2B3_Ex11_AS_EcoRI_978	CAGGAATTCGATCTCCATGAGTTGATCACTTCTACAAITACCTCGTTTCAT	Construction for an EIF2B3_3XFLAG repair template
5	haEIF2B3_Ex11_S_ApaI_979	TGAGGGCCGCTCTGAACAAGCCTGACCCCT	Construction for an EIF2B3_3XFLAG repair template
6	haEIF2B3_3genome_AS_KpnI_980	ACCGGTACCTTAAATCTTGATCTCTCTGC	Construction for an EIF2B3_3XFLAG repair template
7	haEIF2B3_5OUT_S_1029	TGCATGCATGTGGTATACGTACGTG	Genotyping for EIF2B3_3FLAG insertion
8	haEIF2B3_OUT_AS_992	CAGCCCTTAAATCTTGATCTCTCT	Genotyping for EIF2B3_3FLAG insertion
9	haEIF2B4_g257792F_1171	CACCGGCTGCAGGAATCAGCAGGT	Construction for an sgRNA/Cas9 plasmid targeting EIF2B4
10	haEIF2B4_g257792R_1172	AAACACCTGCTGATTCCTGCAGCCC	Construction for an sgRNA/Cas9 plasmid targeting EIF2B4
11	haEIF2B4_g257788F_1173	CACCGGGGAGCACATAGGAGGCTGC	Construction for an sgRNA/Cas9 plasmid targeting EIF2B4
12	haEIF2B4_g257788R_1174	AAACGCAGCTCTATGTGCTCCCC	Construction for an sgRNA/Cas9 plasmid targeting EIF2B4
13	haEIF2B4_EX10_1F_1161	CTTAGAGAAGCCATTGATCGG	Construction for an EIF2B4 A392D repair template
14	haEIF2B4_A392D_1R_1162	AGCATATAGGAATCGGGGGAATCAGCAGGTAGGAGGTGG	Construction for an EIF2B4 A392D repair template
15	haEIF2B4_A392D_1F_1163	CCCGCCGATCTCTATGTGCTCCAGAGGTGA	Construction for an EIF2B4 A392D repair template
16	haEIF2B4_INT11_1R_1164	TAAAGGCCAGTGAGGTGGCTCAAT	Construction for an EIF2B4 A392D repair template
17	haEIF2B4_INT9_OUT1F_1159	CTCAACATTTAGGCAAAAGTCAG	Genotyping for EIF2B4 A392 locus
18	haEIF2B4_INT11_OUT1R_1160	TATAGGTACACAGAGAAACCC	Genotyping for EIF2B4 A392 locus
19	haEIF2B4_qPCR_L1_1496	COGTGTATCACACTGCTTC	qPCR primer
20	haEIF2B4_qPCR_R1_1497	CTTCATGGGAGGTGTTGTG	qPCR primer
21	haEIF2B1_qPCR_L1_1498	GATGCTGCTTGGCTACAT	qPCR primer
22	haEIF2B1_qPCR_R1_1499	ATTCTCCGTTCTCAACCAC	qPCR primer
23	haRpl27_1S_1489	ACAATCACCTCATGCCACAAG	qPCR primer
24	haRpl27_1AS_1490	GCCTTTCAGGGCTGGGCTCTC	qPCR primer
25	CHO_eif2s1_CrispyC_1s_1017	CACCGGATCAGTTTGTITATAGAA	Construction for an sgRNA/Cas9 plasmid targeting eIF2a
26	CHO_eif2s1_CrispyC_2AS_1020	AAACTTCTATAACAAACTGATCC	Construction for an sgRNA/Cas9 plasmid targeting eIF2a
27	CHO_IRE1_g_TM_s7_s_1151	CACCGCCCGTTGACTCCATGCTCA	Construction for an sgRNA/Cas9 plasmid targeting IRE1a
28	CHO_IRE1_g_TM_s7_as_1152	AAACTGAGCATGGAGTCAACGGGGC	Construction for an sgRNA/Cas9 plasmid targeting IRE1a
29	CHO_eif2s1_ssODN_C_1022	AATGTAAGATCCATAGCTGAGATGGGAGCTATGTTAGCTTGTGGAAATAC AATAACATTGAAGGCATGATCTTCTTAGTGAATTAAGCAGAAGACGTATT CGTTCTATAAACAACCTGATCCGATGGCAGAAATGAATGTGTAGTTGTC ATTAGAGTGGACA AAGAAA AAGGTAAGTGAGAAAAA ATTAGAGTGGACA AAGAAA AAGGTAAGTGAGAAAAA	eIF2a S51A repair template
30	CHO_eif2s1_S51_WT_SacI_ssODN_1411	AATGTAAGATCCATAGCTGAGATGGGAGCTATGTTAGCTTGTGGAAATAC AATAACATTGAAGGCATGATCTTCTTAGTGAATTAAGCAGAAGACGTATT CGTTCTATAAACAACCTGATCCGATGGCAGAAATGAATGTGTAGTTGTC ATTAGAGTGGACA AAGAAA AAGGTAAGTGAGAAAAA	eIF2a S51 WT repair template
31	haEIF2B4_A392D_v2_1R_1302	ATAGGAATCGGGGGAATCAGCAGGTAAC TAGTGGGGACCCAGCAT	Construction for an EIF2B4 A392D repair template
32	haEIF2B4_A392WT_1R_1303	ATAGGAATCGGGGGAATCAGCAGGTAAC TAGTGGGGACCCAGCAT	Construction for an EIF2B4 A392 WT repair template
33	haEIF2B4_g257760F_1254	CACCGGGGAGTCACATCGTAGACC	Construction for an sgRNA/Cas9 plasmid targeting EIF2B4
34	haEIF2B4_g257760R_1255	AAACGGTCTACGATGTGACTCCCCC	Construction for an sgRNA/Cas9 plasmid targeting EIF2B4
35	haEIF2B4_EX12_1F_1167	TCATGCACCTCGGCAATGGAT	Construction for an EIF2B4 R484W repair template
36	haEIF2B4_R484W_v2_1R_1250	AGTCACATCGTACACAGATTCACAACACAGAGTGGTGGTTCTGCCAG TT	Construction for an EIF2B4 R484W repair template
37	haEIF2B4_R484W_v2_1F_1251	TCTGGTGTACGATGTGACTCCCTGAGTGGTGCACCTGGTGATCACAGAA	Construction for an EIF2B4 R484W repair template
38	haEIF2B4_3UTR_1R_1170	CATTATGTAGACTAGGCTGGCC	Construction for an EIF2B4 R484W repair template
39	haEIF2B4_g257776F_1175	CACCGGGGAGTCACATCGTAGACC	Construction for an sgRNA/Cas9 plasmid targeting EIF2B4
40	haEIF2B4_g257776R_1176	CACCGGCTTGCACTGCAGATCATCG	Construction for an sgRNA/Cas9 plasmid targeting EIF2B4
41	haEIF2B4_R484W_1R_1168	TCTCCCACCTTGCAATGGAGATCATCGGGTCCATCTGCCAA	Construction for an EIF2B4 R468W repair template
42	haEIF2B4_R484W_1F_1169	CTCCAATGCAAGTGGGGAGAGCAGGTAGCCCTGGCTAA	Construction for an EIF2B4 R468W repair template