

Table S1. Primer sequences.

Primer set	Forward	Reverse
Flag_APEX2_NES_for_AAV	ATCATTTTGGCAAAGAATTGGATCC ACCGCCACCATGGACTAC	CCAGAGGTTGATTATCGATAAGC TTCTATTAGTCCAGGGTCAGGC
Hs_TIA1_CDS_for_APEX2_in_AAV_Flexible 2	ATCATTTTGGCAAAGAATTGGATCC ACCGCCACCATGGAGGACGAGATG CCC	GGAGCCAGCGGATCCCTGGGTTT CATACCCTGC
APEX2_CDS_for_TIA1_in_AAV_Flexible 2	TGAAACCCAGGGATCCGCTGGCTCC GCTGCTGGTTCTGGCGAATTCGGAA AGTCTTACCCAACTGTG	CCAGAGGTTGATTATCGATAAGC TTCTATTAGGCATCAGCAAACCC AAG
Hs_TIA1_CDS_for_APEX2_in_AAV_Rigid	ATCATTTTGGCAAAGAATTGGATCC ACCGCCACCATGGAGGACGAGATG CCC	TGCTTCTGCGCCACCCTGGGTTTC ATACCCTGC
APEX2_CDS_for_TIA1_in_AAV_Rigid	TGAAACCCAGGGTGGCGCAGAAGC AGCAGCAAAAGAAGCAGCAGCAAA AGCAGCACCGGAAAGTCTTACCCA ACTGTG	CCAGAGGTTGATTATCGATAAGC TTCTATTAGGCATCAGCAAACCC AAG
hs_TIA1_CDS_for_APEX2_in_AAV_Flexible 1	ATCATTTTGGCAAAGAATTGGATCC ACCGCCACCATGGAGGACGAGATG CCC	TGAACCGCCTCCACCCTGGGTTT CATACCCTGC
APEX2_CDS_for_TIA1_in_AAV_Flexible 1	TGAAACCCAGGGTGGAGGCGGTTCA GGCGGAGGTGGCTCTGGCGGTGGCG GATCGGGAAGTCTTACCCAACTGT G	CCAGAGGTTGATTATCGATAAGC TTCTATTAGGCATCAGCAAACCC AAG
hs_TIA1_CDS	ATCATTTTGGCAAAGAATTGGATCC ACCGCCACCATGGAGGACGAGATG CCC	CCAGAGGTTGATTATCGATAAGC TTAGTCCTTATTCACTGGGTTTCA TAC