S4 Table. List of plasmids and primers used in the Matchmaker® Gold Yeast Two-Hybrid System.

Plasmids	Relevant features
pGBKT7 DNA-BD	*plasmid encoding the yeast Gal4 DNA-binding domain*
pGADT7 AD	*plasmid encoding the yeast Gal4 activation domain*
pGBKT7-53	*Plasmid use for positive control of protein interaction*
pGADT7-T	*Plasmid use for positive control of protein interaction*
pGBKT7-Lam	*Plasmid use for negative control of protein interaction*
pGBKT7+MP181-MP182	*pGBKT7 plasmid containing HD1 gene (short version)[1] cloned in frame with the GAL4 DNA-BD*
pGBKT7+MP181-MP183	*pGBKT7 plasmid containing HD1 gene cloned in frame with the GAL4 DNA-BD*
pGBKT7+MP184-MP185	*pGBKT7 plasmid containing HD2 gene (short version)[1] cloned in frame with the GAL4 DNA-BD*
pGBKT7+MP184-MP186	*pGBKT7 plasmid containing HD2 gene cloned in frame with the GAL4 DNA-BD*
pGADT7+MP187-MP188	*pGADT7plasmid containing HD1 gene (short version)[1] cloned in frame with the GAL4 activation domain*
pGADT7+MP189-MP190	*pGADT7plasmid containing HD2 gene (short version)[1] cloned in frame with the GAL4 activation domain*

Primers (5'-3')	Relevant information
MP181- CATCATGGAGGAGCAGAAGCTGATCTCAGAGGAGGACCTGATGGAACCGAGTCCGGCG	*Amplifies fragment comprising the complete N-terminal and homeodomain regions of the HD1 gene plus a tail of 40 bp at both 5'[2] and 3'[3] ends (complementary to the pGBKT7 plasmid)*
MP182- TCAAGACCCGTTTAGAGGCCCCAAGGGGTTATGCTAGTTACATCCAGCCGCTGCGACG	
MP183- TCAAGACCCGTTTAGAGGCCCCAAGGGGTTATGCTAGTTATTAGCAGTCGAATACTTCGCCC	*With MP181 primer, amplifies fragment comprising the complete HD1 gene plus a tail of 40 bp at both 5'[2] and 3'[3] ends (complementary to the pGBKT7 plasmid)*
MP184- CATCATGGAGGAGCAGAAGCTGATCTCAGAGGAGGACCTGATGTATAGCTTCACCAAGTTGCC	*Amplifies fragment comprising the complete N-terminal and homeodomain regions of the HD2 gene plus a tail of 40 bp at both 5'[2] and 3'[3] ends (complementary to the pGBKT7 plasmid)*
MP185- TCAAGACCCGTTTAGAGGCCCCAAGGGGTTATGCTAGTTAAGAGCGCCGATTACGGCG	
MP186- TCAAGACCCGTTTAGAGGCCCCAAGGGGTTATGCTAGTTATTATTTCCCCGTTGTCATGTTCAGG	*With MP184 primer, amplifies fragment comprising the complete HD2 gene plus a tail of 40 bp at both 5'[2] and 3'[3] ends (complementary to the pGBKT7 plasmid)*
MP187- CGCCGCCATGGAGTACCCATACGACGTACCAGATTACGCTATGGAACCGAGTCCGGCG	*Amplifies fragment comprising the complete N-terminal and homeodomain regions of the HD1 gene plus a tail of 40 bp at both 5'[4] and 3'[5] ends (complementary to the pGADT7 plasmid)*
MP188- TTGAAGTGAACTTGCGGGGTTTTTCAGTATCTACGATTCACATCCAGCCGCTGCGACG	
MP189- CGCCGCCATGGAGTACCCATACGACGTACCAGATTACGCTATGTATAGCTTCACCAAGTTGCC	*Amplifies fragment comprising the complete N-terminal and homeodomain regions of the HD2 gene plus a tail of 40 bp at both 5'[4] and 3'[5] ends (complementary to the pGADT7 plasmid)*
MP190- TTGAAGTGAACTTGCGGGGTTTTTCAGTATCTACGATTCAAGAGCGCCGATTACGGCG	

[1]Short version of the genes HD1 and HD2 comprises the complete N-terminal region and homeodomain region of each of the genes (first 183 amino acids of HD1 and the first 196 amino acids of HD2).
[2]5'-tail before MCS in pGBKT7 plasmid: CATCATGGAGGAGCAGAAGCTGATCTCAGAGGAGGACCTG
[3]3'-tail after MCS in pGBKT7 p plasmid: TCAAGACCCGTTTAGAGGCCCCAAGGGGTTATGCTAGTTA
[4]5'-tail before MCS in pGADT7 plasmid: CGCCGCCATGGAGTACCCATACGACGTACCAGATTACGCT
[5]3'-tail after MCS in pGADT7 plasmid: TTGAAGTGAACTTGCGGGGTTTTTCAGTATCTACGATTCA