

Genotyping Report 13940 Target Sequence and Genotyping Primers and Probes

Projects 13940

December 4th, 2017

Nomenclature: C57BL/6-*LRRK2*<*tm4.1Arte*>

Genotyping Primer and Probe sequences

Primer and probe sequences for *LRRK2 G2019S*<*tmArte*>

| Assay For | Forward Primer | Reverse Primer | Probe |
|-----------|------------------------|--------------------------|----------------------------|
| Wild type | TCATTGCGAAGATTGCGGACTA | GGGTGCCCTCTGATGTCTTTATTC | CGGGATC GCACAGTAC |
| Mutant | | | TCAATT GCACAGTACTGC |

Target Sequence

CTGTGTGTTAAAGCTCCAGTTGCCTACCAGGCTTGATGCTTTAGTTATGGGGAAGAAGCCTCACCTTGCTTTGTAGTGTTGAT
 CTTTACGCTTTGAAGCCTGTTTGCAGTATATATTTCAACTTCCACAGACAAAGTTAACACACTATTCTTGACGTTTTGCATGAA
 GAACACAACATATTGAAAAGAAATCTGAGCAAATTAATATAGGATGACCGTTTTTTGATAAGACCTCCTGTGTA CTCTGCTGGC
 AGGTATCTCCACTCAGCCATGATTATTTACCGTGACCTGAAGCCCCACAATGTGCTGCTTTTTACCCTGTATCCCAATGCTGCC
 A **TCATTGCGAAGATTGCGGACTA** **C[GGGATC/TCAATT]GCACAGTAC** TGCTGCAGGATGG
GAATAAAGACATCAGAGGGCACCCCAGGTAGGAGAACAAGTTTACTTTTTTGCAGTGGACCATCAGTGCCCTCAAGTGTG
 GGTCTAGGAGATATAGCCTGTACAGAGTGAGCAGATACTTATGAATTGAAGAGTAATGACCATGGCATTGACATTTTTATC
 ATCCCTTTTTCGAAAACAGCAACAACGACAACAAAAACCAACATGTAATTTTCCGAGCCAAAACTAAGCTCAAAGAGAGAAA
 GTATTTAATGTCATTATATTTTTGAAAGCTGATTTTCCCCCAATTACAATGCCTGTTGTATTTTTGGTCAGACTAAATGCTTTC
 CCTTTATTTTGTTCCTGTATTTGCAAGTAGGGCGTGCATCTACCCAAGCATGTCAGAGTACACATTGCCTGTGAGTGTCTC
 TGGGCTGCCGGATCAGACGGAAATAGTTACTGTTT

Real time PCR was carried out using standard protocols on an ABI7900 Real-Time PCR System (Transnetyx, Cordova, TN).