

File S2 List of Primers

Primers used for generation of plasmids encoding LAP2 missense variants

p.(Leu124Phe) forward 5' gaagatcttttgatcagttgtgaaatacggagtg 3'
reverse 5' cactccgtatttcacaaactgatccaaaagatcttc 3';

p.(Ala240Thr) forward 5' gcagtaccgaactacagacagctaagaaagtacatac 3'
reverse 5' gtatgtactttcttagctgtctgtagttcggtactgc 3'

p.(Arg690Cys) forward 5' ggaggagaagtatgcaaagtaattaaaaagtgtggaaataaacac 3'
reverse 5' gtgtttattccacacttttaattactttgcatacttctctcc 3';

Primers used for generation of plasmids encoding the LAP2 α variant p.(Gly395Glufs*11)

p.(Gly395Glufs*11) forward 5' ggtaggtagttgcctgaacttctaactctatgc 3'
reverse 5' gcatagagttagaagttcaggcaaactacctacc 3'.

p.(Gly395Glufs11)-DDK forward 5' – gccgccgcgatcgccatgccggagttcctggaag – 3'
reverse 5'- ctgctcgagcgccgcgctcatccagtgggggcatag -3'

Primers used to amplify by PCR the cDNA encoding BAF

for further ligation into the EcoR1 and Xba1 sites of pcDNA-3HA (Addgene):

BAF forward : 5' -gcgaattcacaacctcccaaaagcaccg-3'
reverse : 5' -cgtctagactacaagaaggcatcacacc-3'

Primers used for qRT-PCR

Human primer sequences :

HPRT forward : 5' –acccacgaagtgttgata-3'
reverse : 5' –aagcagatggccacagaact-3'

GAPDH forward : 5' –gtgaaggtcggagtcacacgg-3'
reverse : 5' –acatgtaaacatgtagttgaggtc-3'

18S rRNA	forward : 5'-acggaccagagcgaaagcat-3' reverse : 5'- ggacatctaaggcatcacagac-3'
Beta Actin	forward : 5'-atcatgtttgagacctcaa-3' reverse : 5'-ttgcgtcaggaggagcaat-3'
Rpl19	forward : 5'-tcaaaaacaagcggattctca-3' reverse : 5'- gcgtgcttccttggtcttag-3'
TBP	forward : 5'- gggtttccagctaagttcttg-3' reverse : 5'-agcacaaggccttctaacctt-3'
PPIA	forward : 5'-ctggttccttctgcgtgaat-3' reverse : 5'- aaccagacaacacacaagactga-3'
LAP2 α (1)	forward 5'-gtgacaatgaagaaggaaag-3' reverse 5'-ggtaggtctcccttagaagt-3'
LAP2 α (2)	forward 5'-gaagaaggaaagaagaagaacac-3' Reverse 5'-ttagctgctgtagttcgg-3'

Rat primer sequences (H9C2 cells)

GAPDH	forward : 5'-aggagtaagaaccctggac-3' reverse : 5'-ctgggatggaattgtgag-3'
HPRT	forward : 5'-cccagcgtcgtattagtag-3' reverse : 5'-ttcagtcctgtccataatcagtc-3'
TBP	forward : 5'-caccgtgaatcttggtgtaa-3' reverse : 5'-cgcagttgtcgtggctctc -3'
HMBS	forward : 5'-tctagatggctcagatagcatgca-3' reverse : 5'-tggaccatcttctgctgaaca-3'
Actin B	forward : 5'- aagtcctcacctccaaaag -3' reverse : 5'- aagcaatgctgtcaccttccc -3'
YWHAZ	forward : 5'- gatgaagccattgctgaactg -3' reverse : 5'- gtctcctgggtatccgatgc -3'