

Product datasheet for **MR219945**

Grk4 (NM_001080743) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Grk4 (NM_001080743) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Grk4
Synonyms: A830025H08Rik; Gprk2l; Gprk4; GRK
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR219945 representing NM_001080743
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAACGAGAACTTCGTGGCCAACAATCTGTTGCTGAAGGCCGTCTAGGATTTAACAAACAGACTG
GTCGTAGTAAAAAATGGAGAGAGCTCCTGAAGTTCCCCAGTCAGCATGTGCACTGAATTAAGATGGTC
CATCGAAAAGGATTTAGCAGCTTTGCGACAAACAGCCAATTGGAAGACTTCTTTTAGACAATTCTGT
GATACAAAACAGATCTAAAAAGGTGCATTGAATTCCTGGATGCAGTGGCAGAGTACGAAGTTACCATTG
AAGAGGAACAAAGAGAATTTGGACTAGCCATCTCAGTAGATTCTCAAAGAGAAGTCAGAAGTCCCTT
ACCAGAGATACCTCCAGATATTGTGAAAGAGTGTAAATGGAATCTGAAGCAGAATTCTCCCTCTCAAAAT
GTTTTCGAAGAATGTGCTGGGTTTTCTGTCTCCAGAGTTGTCTCCCTTTGGGATCCTAAGAGAACACAAA
TGCCAGCCAGGCCTATACCCAGAAAACTCTCAATTACCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR219945 representing NM_001080743
Red=Cloning site Green=Tags(s)

MELENFVANLLLLKARLGFNKQTGRSKKWRELLKFPVSMCTELRWSIEKDFSSLCDKQPIGRLLFRQFC
DTKPDLKRCIEFLDAVAEYEVTEEEQREFGLAIFSRFFKEKSEVPLPEIPPDIVKECKWNLKQNSPSQN
VFEECAGFSVSRVVSLWDPKRTQMPAQAYTQNSQLP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9035_f06.zip



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001080743

ORF Size: 531 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001080743.1](#), [NP_001074212.1](#)

RefSeq Size: 3240 bp

RefSeq ORF: 534 bp

Locus ID: 14772

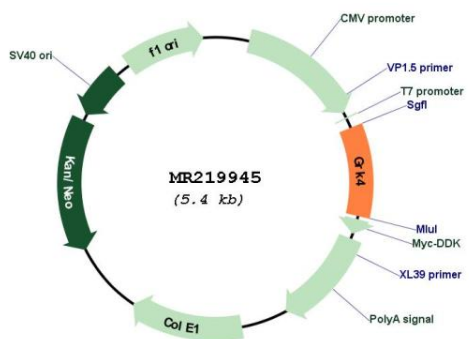
UniProt ID: [O70291](#)

Cytogenetics: 5 17.91 cM

MW: 21.1 kDa

Gene Summary: Specifically phosphorylates the activated forms of G protein-coupled receptors.
[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR219945