

Product datasheet for **MR219941**

Grk4 (NM_019497) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Grk4 (NM_019497) 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) |



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ORF Nucleotide Sequence:

>MR219941 representing NM_019497
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAAC**T**CGAGAACTTCGTGGCCAACAATCTGTTGCTGAAGGCCGTCTAGGATTTAACAAACAGACTG
 GTCGTAGTAAAAATGGAGAGAGCTCCTGAAGTTCCCCAGTCAGCATGTGCAC**T**GAATTAAGATGGTC
 CATCGAAAAGGATTTTAGCAGTCTTTGCGACAAACAGCCAATTGGAAGACTTCTTTTTAGACAATCTGT
 GATACAAAACCAGATCTAAAAAGGTGCATTGAATCTTGATGCAGTGGCAGAGTACGAAGTACCATTG
 AAGAGGAACAAAGAGAATTTGGACTAGCCATCTCAGTAGATTCTCAAAGAGAAGT**C**AGAAGTCCCTT
 ACCAGAGATACCTCCAGATATTGTGAAAGAGTGAATGGAATCTGAAGCAGAATCTCCCTCTCAAAAT
 GTTTTCGAAGAATGTGCTGGAATGTCTGTAAGTATTGAGTGAACACCATT**T**GAGAATACCAAGAAA
 GTACCTACTTTAATCGATTTTTACAATGGAAATGGCTAGAAAGGCGTCCAGTAACAAAGAACACATTCAG
 ACAATATAGAGTTCTAGGAAAAGCGGATTTGGAGAGGTTTGTGCCTGTCAAGTACGAGCTACAGGAAAA
 ATGTATGCCTGCAAAAACTAGAAAAAAAAGAATAAAGAAGAGGAAAGTGAAGCCATGGCTCTGAATG
 AAAAAAGAATCTTAGAAAAATTGCATAGTAGATTTGTAGTTAGCTTACACTTATGAACCAAGGA
 TGCTTTGTGTTGGTGCTAACCAATAATGAATGGAGGGATTTGAAGTACCACATTTACAACCTGGGTGAT
 CCTGGCTTTGAGGAGCCGAGAGCTGTGTTCTATGCTGCAGAGCTGTGCTGTGGCTTGAAGATTTACAGA
 GGAAAAGAATTGTATACAGAGACCTAAAGCCAGAGAATATCCTCCTTGATGATCATGGACACATCCGAAT
 TTCAGATCTTGGTCTAGCTATGGAAGTCCAGAAGGGGAGATGGTACGAGGAAGATTTGGTACTGTTGGC
 TACATGGCTCCAGAAATATCAATCATGAAAAGTATACATTTAGTCTGACTGGTGGGACTTGGCTGTT
 TGATATAGAAATGATTGCGGGACATTC**C**ATT**C**AGAAAAATAAAGAAAAAGTCAACCGGGAGGAAT
 GGAAAGAAGAGTGAAGAATGAAACTGAGGAGTACTCTGAGAGGTTTTTCAGAGGATGCCAAGTCCATCTGC
 AGCATGTTACTCATCAAAGATCCAAGTAAGAGACTGGGCTGCCAGAGGGATGGAGTCTCTGCTGTAAGC
 AGCACCCAATATTCAAGGATATAAACTCAGCAGGCTGGAAGCAAATATGTTAGATCCACCTTTCATTCC
 TGATCCTCAGGCCATTTATTGTAGGAACATCTGGATATTGGGCAGTTCTCTGTGGTGAAGGAGTCAAC
 CTGGATACCAATGATGAAATCTTCTACGCTGAATTTGCGACAGGGTCTGTACCATCCCCTGGCAGAAATG
 AGATGATTGAATCTGGATGTTTCAAGGATCTCAATGAAAATGAAGACGATTTGTCATCACTTGAATAA
 CAAGATGTGTTCCCTCATTCTCAGACCAAAGAGAACTTCTTCCGTAGACTCTTCAGAAGAACGGGCTGC
 CTGAACATTGCCCTCAGTGAAGAGGGAGCCAACAGAACAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR219941 representing NM_019497
 Red=Cloning site Green=Tags(s)

MELENFVANLLKARLGFNKQGRSKKWRELLKFPVSMCTELRWSIEKDFSSLCDKQPIGRLLFRQFC
 DTKPDLKRCIEFLDAVAEYEVTEIEEQREFGLAIFSRFFKEKSEVPLPEIPDIVKECKWNLKQNSPSQN
 VFEECAGIVCKYLSETPFEEYQESTYFNRFQWKWLERRPVTKNTFRQYRVLGKGGFGEVCACQVRATGK
 MYACKKLEKKRIKKRGEAMALNEKRILEKLSRFVVSLAYTYETKDALCLVLTIMNGGDLKYHIYNLGD
 PGFEEPRAVFYAAELCCGLEDLQRKRIYVRDLKPENILLDDHGHIRISDLGLAMEVPEGEMVRGRVGTG
 YMAPEIINHEKYTFSPDWWGLGCLYEMIAGHSPFRKYKEKVNREELERRVKNETEYSERFSEDAKSIC
 SMLLIKDPSKRLGCQRDGVSAVKQHPIFKDINFSRLEANMLDPPFIPDPQAIYCRNILDIGQF SVVKGVN
 LDTNDEIFYAEFATGSVIPWQNEMIESGCFKDLNENEDDLSSLEKYMCCSSILRPKRNFRRRLFRRTGC
 LNIALSEEREPT**E**H

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9010_a04.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

ACCN: NM_019497

ORF Size: 1722 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

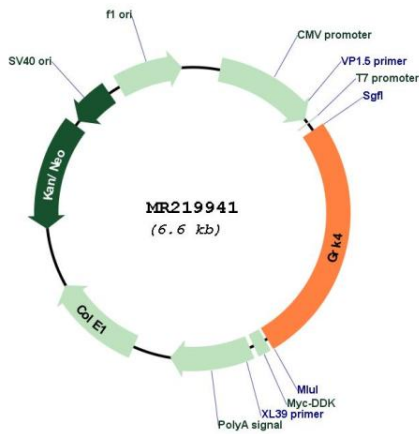
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_019497.2, NP_062370.2](#)
RefSeq Size: 2408 bp
RefSeq ORF: 1725 bp
Locus ID: 14772
UniProt ID: [O70291](#)
Cytogenetics: 5 17.91 cM
MW: 67.4 kDa
Gene Summary: Specifically phosphorylates the activated forms of G protein-coupled receptors. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR219941