

Product datasheet for **MG219941**

Grk4 (NM_019497) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grk4 (NM_019497) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Grk4
Synonyms:	A830025H08Rik; Gprk2l; Gprk4; GRK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG219941 representing NM_019497
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAAC**T**CGAGAACTTCGTGGCCAACAATCTGTTGCTGAAGGCCCGTCTAGGATTTAACAAACAGACTG
 GTCGTAGTAAAAATGGAGAGAGCTCCTGAAGTTTCCCCAGTCAGCATGTGCACTGAATTAAGATGGTC
 CATCGAAAAGGATTTTAGCAGTCTTTGCGACAAACAGCCAATTGGAAGACTTCTTTTTAGACAATCTGT
 GATACAAAACCAGATCTAAAAAGGTGCATTGAATCTTGGATGCAGTGGCAGAGTACGAAGTTACCATTG
 AAGAGGAACAAAGAGAATTTGGACTAGCCATCTCAGTAGATTCTCAAAGAGAAGTCAAGAGTCCCTT
 ACCAGAGATACCTCCAGATATTGTGAAAGAGTGTAAATGGAATCTGAAGCAGAATCTCCCTCTCAAAAT
 GTTTTCGAAGAATGTGCTGGAATTGTCTGTAAGTATTTGAGTGAACACCATTTGAAGAATACCAAGAAA
 GTACCTACTTTAATCGATTTTTACAATGGAAATGGCTAGAAAGGCGTCCAGTAACAAAGAACACATTCAG
 ACAATATAGAGTTCTAGGAAAAGCGGATTTGGAGAGTTTGTGCCTGTCAAGTACGAGCTACAGGAAAA
 ATGTATGCCTGCAAAAACTAGAAAAAAAAGAATAAAGAAGAGGAAAGTGAAAGCCATGGCTCTGAATG
 AAAAAAGAATCTTAGAAAAATTGCATAGTAGATTTGTAGTTAGTTTAGCCTACACTTATGAAACCAAGGA
 TGCTTTGTGTTGGTGCTAACCAATAATGAATGGAGGGATTTGAAGTACCACATTTACAACCTGGGTGAT
 CCTGGCTTTGAGGAGCCGAGAGCTGTGTTCTATGCTGCAGAGCTGTGCTGTGGCTTGAAGATTTACAGA
 GGAAAAGAATTGTATACAGAGACCTAAAGCCAGAGAATATCCTCCTTGATGATCATGGACACATCCGAAT
 TTCAGATCTTGGTCTAGCTATGGAAGTCCAGAAGGGGAGATGGTACGAGGAAGATTTGGTACTGTTGGC
 TACATGGCTCCAGAAATATCAATCATGAAAAGTATACATTTAGTCTGACTGGTGGGATTTGGCTGTT
 TGATATAGAAATGATTGCGGGACATTC**CAAT**TCAGAAAAATAAAGAAAAAGTCAACCGGGAGGAAT
 GGAAAGAAGAGTGAAGAATGAAACTGAGGAGTACTCTGAGAGGTTTTTCAGAGGATGCCAAGTCCATCTGC
 AGCATGTTACTCATCAAAGATCCAAGTAAGAGACTGGGCTGCCAGAGGGATGGAGTCTCTGCTGTAAGC
 AGCACCCAATATTCAAGGATATAAACTTCAGCAGGCTGGAAGCAAATATGTTAGATCCACCTTTCATTCC
 TGATCCTCAGGCCATTTATTGTAGGAACATCTGGATATTGGGCAGTTCTCTGTGGTGAAGGAGTCAAC
 CTGGATACCAATGATGAAATCTTCTACGCTGAATTTGCGACAGGGTCTGTACCATCCCCTGGCAGAAATG
 AGATGATTGAATCTGGATGTTTCAAGGATCTCAATGAAAATGAAGACGATTTGTCATCACTTGAAAAATA
 CAAGATGTGTTCCCTCATTCTCAGACCAAAGAGAACTTCTTCCGTAGACTCTTCAGAAGAACGGGCTGC
 CTGAACATTGCCCTCAGT**GAGGAGGGAGCCAACAGAACAC**

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG219941 representing NM_019497
 Red=Cloning site Green=Tags(s)

MELENFVANLLKARLGFNKQTRGRSKWRELLKFPVSMCTELRWSIEKDFSSLCDKQPIGRLLFRQFC
 DTKPDLKRCIEFLDAVAEYEVTIIEEQREFGLAIFSRFFKEKSEVPLPEIPPDIVKECKWNLKQNSPSQN
 VFEECAGIVCKYLSETPFEEYQESTYFNRFQWKWLERRPVTKNTFRQYRVLGKGGFGEVCACQVRATGK
 MYACKLEKRIKKRGEAMALNEKRILEKLHSRFFVSLAYTYETKDALCLVLTIMNGDLKYHIYNLGD
 PGFEEPRAVFYAAELCCGLEDLQRKRIYRDLKPENILDDHGHIRISDLGLAMEVPEGEMVRGRVGTG
 YMAPEIINHEKYTFSPDWWGLGCLYEMIAGHSPFRKYKEKVNREELERRVKNETEEYSERFSEDAKSIC
 SMLLIKDPKSKRLGCQRDGVSAVKQHPIFKDINF SRLEANMLDPPFIPDPQAIYCRNILDIGQFSVVKGVN
 LDTNDEIFYAEFATGSVTIPWQNEMIESGCFKDLNENEDDLSSLEKYKMCSSILRPKRNFRRRLFRRTGC
 LNIALSEEREPTTEH

TRTRPLE - GFP Tag - V

Restriction Sites:

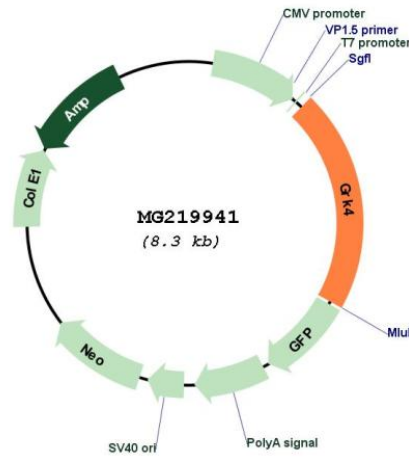
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



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

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