

Product datasheet for **MR207679**

Agfg2 (NM_178162) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Agfg2 (NM_178162) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Agfg2
Synonyms:	A630095P14Rik; Hr; Hrbl; RAB-R; RABR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207679 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGATGGCGGCTAAGAAGGGCCCGGGCCGGTGGCGGGTTCGGAGGGAGCAAAGCGGAGGCTGAAG
 CCGCTTCGGAGGTGGTGCCCGGAGTGGCGGGTGCAGCCAGGCCGGGAACCGCCACTG
 TTTCGAGTGCGCCACGCGGGTACGTATGTGGACATCACCGTGGCAGCTTCGTCTGCACCACCTGC
 TCCGGCTCCTGAGAGGCTGAACCCCTCATCGAGTCAAGTCAATCTCCATGACAACCTTCACTGAGC
 CTGAAGTCTGTTCTCCAATCTCGTGGAAATGAGGTCTGTGGAAAATCTGGCTCGGTCTTTTGTGATG
 TCGGACATCGTTGATACCAGATTCCAGGGATCCTCAGAAGGTGAAGGAGTTTCTCAAGAAAAATATGAG
 AAAAAAGATGGTACGTCCCCCAGAGCAAGTCAAGGGCCCTTACAGCAAAGGCAGTGTCTCTGCTA
 CCCCTGTCCAGGGCTCTGTCCAGAAGGAAACCCATTCCGACACTTCTGGGAGACCCTGTGCCATCTCT
 CTCTGATCCTGCTCCACTTCAAGCCAGCTGGGAGCCAGTCGAGGCACGCAGCAGCTCGCAGGCCAGG
 AGCTCCCAGCCTCCTTCCATTATCCACCAAGAAAGCCAGCACTGACCTGCTGGCGGATATCGGGGGAG
 ACCCTTTGCTGCTCCCCAGGTGGTGCAGCCTTTGCCTCATTCCAGGCTTTGGAGTAGGCCAGACTCC
 TGCCCATGGAGGCTTTGCCAACTTCGATGCCTTCAGCAGCAGCCCTAGCTCTTCCACCTTCGGAAGCCTC
 CCTCCATCCGTCGAAGCGCCATTCCAGGCCAGCCGACCCTGCAGGAAGTGGCCAGATGTCTGCGTTTG
 GTGTGGCACCCCTTGAGCTGCCAGTCAACCAACAACCTTGAGATGTGGGCGGCTCCTGGGTCCCAG
 GATGGCTGCTGGAGGTCTCCCTGGCAGTGTTTTGGGATGCCAGCCAGGTTCTGCCCTGCAGTCGGCC
 GTGCCAGGTGTTAGCGGCAGTGGAGGCTCCCTTTGGAGCCTACACCAACCCCTTCCACCCCTTGCC
 AAGCCAGTGCCTTCTACCAACCCATTCAACCAATGGTCTAGCCTCAGGGCCTTGGGATGAG
 CAGTGTTCGGCCTGGCCTTCTCCAGCCAGTCCACCCCTCGGGGGCCTTTGCCAGTCCCTTCTCTGCA
 GTTCCACACAGGCTGGACTGGCCGACCAGCAGAATGGATCTTCTTTGGGACTTGGGACCTCTA
 AGCTGGGCGAGAGGCCACTGAGCCAGCCGGCTGGGATCTCTACCAATCCTTTCATGACTGGATCCTCAG
 GTTGGCTCCAAACCTCAACCAACCAACCCATTCTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207679 protein sequence
 Red=Cloning site Green=Tags(s)

MVMAAKKGPVGGVGGSKAEAAASEVWCRRVRELGGCSQAGNRHCFECAQRGVTVYVDITVGSFVCTTC
 SGLLRGLNPPHRVKSISMTTFTEPEVLFLQSRGNEVCRKIWLGLFDARTSLIPDSRDPQKVKEFLQEKYE
 KKRWYVPEQVKGPSYSKGSVATPVQGSVPEGPIRTLLGDPVPSLSDPASTSSQPGSQARSSSQAR
 SSQPPSHSSTKKASTDLLADIGDPFAAPQVVPFAFASFPGFVQTPAHGGFANFDFSSPSSSTFGSL
 PPSVQAPFQAQPTPAGSQMSAFGVAPLAAASQPNNLADVGLLGPMAAGGLPGSVFGMPSQVPALQSA
 VPGVSGSGLPFGAYTNPFAATPAQAQLPSTNPFQPNGLASGPGFGMSSVRPGLLQVPPSGAFASPFSA
 VFPTQAGLADQQNGSSFGLGTSKLGQRPLSQPAGISTNPFMTGSSAFASKPPTTNPFL

TRTRPLEQ**KL**I**SEEDLA**AND**ILDYK**DDDD**KV**

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_178162

ORF Size: 1440 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_178162.3](#), [NP_835456.1](#)
RefSeq Size: 2409 bp

RefSeq ORF: 1440 bp

Locus ID: 231801

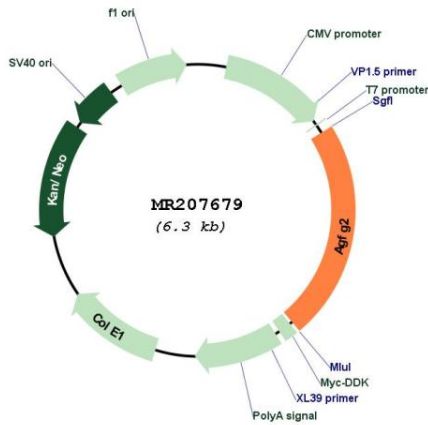
UniProt ID: [Q80WC7](#)

Cytogenetics: 5 G2

MW: 49 kDa

Gene Summary: This gene encodes a paralog of the HIV-1 Rev binding proteins that serve as cellular co-factors for HIV-1 Rev protein in shuttling viral pre-mRNAs from the nucleus to the cytoplasm. The encoded protein contains an ADP-ribosylation factor GTPase activating protein (Arf-GAP) zinc finger domain, several phenylalanine-glycine (FG) motifs and asparagine-proline-phenylalanine (NPF) motifs. Alternate splicing of this gene results in multiple transcript variants. [provided by RefSeq, Dec 2014]

Product images:



Circular map for MR207679