

Product datasheet for **MR230182**

Agfg2 (NM_001303271) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Agfg2 (NM_001303271) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Agfg2
Synonyms:	A630095P14Rik; Hr; HrbI; RAB-R; RABR
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR230182 representing NM_001303271
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGATGGCGGCTAAGAAGGGCCCGGGCCGGTGGCGGGTTCGGAGGGAGCAAAGCGGAGGCTGAAG
 CCGCTTCGGAGGTGTGGTGCCGCGAGTGCAGGGAGCTGGCGGGTGCAGCCAGGCCGGGAACCGCCACTG
 TTTCGAGTGCGCCACGCGGGGTACGTATGTGGACATCACCGTGGCAGCTTCGTCTGCACCACCTGC
 TCCGGCTCCTGAGAGGCTGAACCCCCCTCATCGAGTCAAGTCAATCTCCATGACAACCTTCACTGAGC
 CTGAAGTCTGTCTCCAATCTCGTGGAAATGAGGTCTGTGGAAAATCTGGCTCGGTCTTTTGTATGC
 TCGGACATCGTTGATACCAGATTCCAGGGATCCTCAGAAGGTGAAGGAGTTTCTCCAAGAAAAATATGAG
 AAAAAAGATGGTACGTCCCCCAGAGCAAGTCAAGGGCCCTTACAGCAAAGGCAGTGTCTCTGCTA
 CCCCTGTCCAGGGCTCTGTCCAGAAGGAAACCCATTCCGACACTTCTGGGAGACCCTGTGCCATCTCT
 CTCTGATCTGTCCACTTCAAGCCAGCTGGGAGCCAGTGCAGGCACGCAGCAGCTCGCAGGCCAGG
 AGCTCCCAGCCTCCTTCCATTATCCACCAAGAAAGCCAGCACTGACCTGCTGGCGGATATCGGGGGAG
 ACCCTTTGCTGCTCCCCAGGTGGTGCAGCCTTTGCCTCATTCCAGGCTTTGGAGGCCAGACTCCTGC
 CCATGGAGGCTTTGCCAACTTCGATGCCTTCAGCAGCAGCCCTAGCTCTTCCACCTTCGGAAGCCTCCCT
 CCATCCGTCCAAGCGCCATTCCAGGCCAGCCGACCCCTGCAGCCAATCGGATGCTAACTGGAAGTTACA
 GCTTTGGAAGTGGCCAGATGTCTGCGTTTGGTGTGGCACCCCTTCGAGCTGCCAGTCAACCCAACAACCT
 TGCAGATGTGGCGGCCCTCCTGGTCCCAGGATGGCTGCTGGAGGTCTCCCTGGCAGTGTCTTTGGGATG
 CCGAGCCAGGTTCTGCCCTGCAGTCCGCGTCCAGGTGTTAGCGGCAGTGGAGGGTCCCTTTGGAG
 CCTACACCAACCCCTTCGCCACCCTGCCAAGCCAGCTGCCTTCTACCAACCCATTCCAACCCAAATGG
 TCTAGCCTCAGGGCTGGCTTTGGGATGAGCAGTGTTCGGCCTGGCCTTCTCCAGCCAGTCCACCCCTCC
 GGGCCTTTGCCAGTCCCTTCTCTGCACCCGTGTTCCCCACACAGGCTGGACTGGCCGACCAGCAGAATG
 GATCTTCTTTGGCGACTTGGGGACCTCTAAGTGGGGCAGAGGCCACTGAGCCAGCCGGCTGGGATCTC
 TACCAATCCTTTCATGACTGGATCCTCAGCGTTTGCCTCAAACCTCCAACCACAAACCCATTCTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230182 representing NM_001303271
 Red=Cloning site Green=Tags(s)

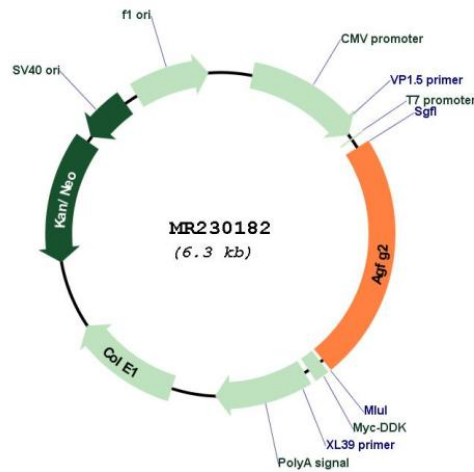
MVMAAKKGPGGGGVGGSKAEAAASEVWCRRVRELGGCSQAGNRHCFECAQRGVTYVDITVGSFVCTTC
 SGLLRGLNPPHRVKISIMTTFTEPEVLFQSRGNEVCRKIWLGLFDARTSLIPDSRDPQKVKEFLQEKYE
 KKRWYVPPEQVKGPSYSKGSVSATPVQGSVPEGKPIRLLGDPVPSLSDPASTSSQPGSQSARSSSQAR
 SSQPPSHSSTKKASTDLLADIGGDPFAAPQVVPFAFSPGFGGQTPAHGGFANFDFSSSPSSSTFGSLP
 PSVQAPFQAQPTPAANRMLTGSYSFGSQMSAFVAPLAASQPNLADVGGLLGPMAAGGLPGSVFGM
 PSQVPALQSAVPGVSGSGLPFGAYTNPFATPAQAQLPSTNPFQPNGLASGPGFGMSSVRPGLLQPVPPS
 GAFASPFSAVFPQTQAGLADQQNGSSFGLDGTSLKLRPLSQPAGISTNPFMTGSSAFASKPPTTNPFL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001303271

ORF Size: 1467 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_001303271.1](#), [NP_001290200.1](#)

RefSeq Size: 2950 bp

RefSeq ORF: 1470 bp

Locus ID: 231801

Cytogenetics: 5 G2

MW: 50.5 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]