

Product datasheet for **RR200919**

Agfg1 (NM_001135596) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Agfg1 (NM_001135596) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Agfg1
Synonyms:	MGC116375
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR200919 representing NM_001135596
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCCAGCGGAAGCGGAAGCAGGAGGAGAAGCACCTGAAGATGCTGCGGGACATGACGGGGCTGC
 CGCACAACCGCAAGTGCCTCGACTGCGACCAGCGCGGCCACCTACGTGAACATGACGGTCGGCTCGTT
 CGTGTGCACCTCTTGCTCCGGCAGCCTGAGAGGGTTAAATCCACCTCACAGGGTGAAGTCTATCTCCATG
 ACAACATTTACACAACAGGAAATGAATTTCTGCAAAAACATGGAATGAAGTCTGCAAACAGATTTGGC
 TAGGATTATTTGATGATAGATCTTCAGCAATCCAGACTTCAGGGATCCACAAAAAGTAAAAGAGTTTCT
 ACAAGAGAAATATGAAAAGAAAAGATGGTATGTTCTCCAGAGCAAGCCAAAGTGGTGGCATCGTTTAC
 GCTTCTATTTAGGGTCTCTGCCAGCAGCACAAGCAGCACCCCTGAGGTCAAACCCCTGAAATCTCTGT
 TGGGAGAGTCTGCACCAGCACTGCACTTAATAAGGGCACACCTACTCAGTCACCAGTTGTAGGTCGCTC
 TCAGGGCAGCAGCAGGAGAAGAAGCAGTTTGACCTTTTGAGTGACCTTTGGCTCAGACATCTTTGCTGCT
 CCAGCGCCTCAGTCGACAGCTACAGCCAACCTTTGCTAACTTTGCACACTTAAACAGTCATGCAGCGCAGA
 ATTCTGCAAAATGCAGAGTTTGCAAACTTTGATGCATTTGGACAGTCTAGTGGTTCGAGTAATTTGGAGG
 TTTCCCAACAGCAAGTCACTCTCCTTTTCAGCCCCAACTACAGGTGGAAGTGTGGATCAGTAAATGCT
 AATTTTGCTATTTTGATAACTTCCCAAACTCCAGTGTGATTTGGATCCTTCAGTACATCCCAAGA
 GTCATCAGACAGCATCACTGTTAGTAAAGTTTCAACAAACAAAGCTGGTTTACAGACAGCAGACAAATA
 TGCGGCACTTGCTAATTTAGACAATATCTTCAGTGCTGGGCAAGGAGGTGATCAAGGAGTGGTTTTGGG
 ACCACCGGTAAGCTCCTGTTGGTCTGTGGTTCAGTCCCAGTCATTCAAGTGCATCTCTGACAAGT
 ATGCAGCCCTGGCAGAGTTAGACAGCGTGTTCAGTTCTGCAGCCACCTCCAATAATGCGTACACATCCAC
 CAGTAATGCTAGCAGCAGTGTCTTTGGAACAGTGCCTGTGGGTGCCTCTCCTCAGACACAGCCTGCTTCA
 AGTGGGCTGCTCCATTTGGAGCTACGCCTTCTACGAATCCATTTGTTGCTGCTACTGGTCCGTCTGCAG
 CGTCATCTACAAATCCATTTAGACCAATGCCAGAGGAGCAACAGCGGCAACCTTTGGCACTGCATCTAT
 GAGTATGCCAGCAGGATTTGGCACTCCTGCTCAGTACAGTCTCCCACCAGCTTTAGCGGCAAGTTCCAG
 CAGCCTCCCTTCCAGCCCAAGCAGCTTTCCCTCAGCAGACAGCCTTTTCTCAGCAGCCCAATGGTGCAG
 GTTTCGCCACATTTGGACAAACAAAACCAGTGGTAACACCTTTTGGTCAAGTAGCAGCTGCTGGAGTGT
 TAGTAATCCTTTATGACTGGTGCACCAACAGGACAATTTCCAACAGGAAGCTCATCAACCAATCCTTTCT
 TTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR200919 representing NM_001135596
 Red=Cloning site Green=Tags(s)

MAASAKRKQEEKHLKMLRDMTGLPHNRKCFDCCDQRGPTYVNMVGSFVCTSCSGSLRGLNPPHRVKSISM
 TTFTQQIEFLQKHGNEVCKQIWLGLFDDRSSAIPDFRDPQKVKEFLQEKYEKKRWYVPPEQAKVVASVH
 ASISGSSASSTSTPEVKPLKSLLGESAPALHLNKGPTQSPVVGSRSQGQEQEKQFDLLSDLGSDIFAA
 PAPQSTATANFANFAHFNSHAAQNSANAFAFNDAFGQSSGSSNFGGFPTASHSPFPQTGGGAGSVNA
 NFAHFDNFPKSSSADFGSSTSQSHQTASTVSKVSTNKAGLQTADKYAALANLDNIFSAGQGGDQGSFG
 TTGKAPVGSVSVSPSHSSASSDKYAALAE LDSVSSAATSNNAYTSTSNASSSVFGTVPVGPASPQTQPAS
 SGPAPFGATPSTNPFVAATGPSAASSTNPFQTNARGATAATFGTASMSMPAGFGTPAQYSLPTSFSGSFQ
 QPPFPAQAAPQQTAFSQPNGAGFATFGQTKPVVTPFGQVAAAGVSSNPFMTGAPTGFPTGSSSTNPF
 L

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

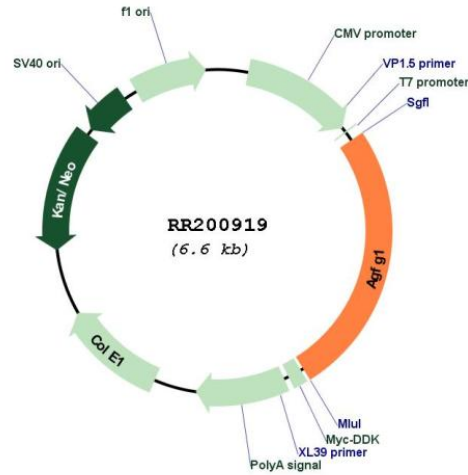
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001135596
 ORF Size: 1683 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:	<ol style="list-style-type: none">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_001135596.1 , NP_001129068.1
RefSeq Size:	3267 bp
RefSeq ORF:	1686 bp
Locus ID:	363266
UniProt ID:	Q4KLH5
Cytogenetics:	9q34
MW:	58.2 kDa
Gene Summary:	Required for vesicle docking or fusion during acrosome biogenesis. May play a role in RNA trafficking or localization (By similarity).[UniProtKB/Swiss-Prot Function]