

## Product datasheet for **RG205687**

### AGFG2 (NM\_006076) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AGFG2 (NM_006076) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AGFG2
Synonyms:	HRBL; RABR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG205687 representing NM\_006076  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGTGATGGCGCGAAGAAGGGCCCGGGCCCGGGCGCGGGGTACGCGGGGCAAGGCGGAGGCGGAGG  
 CGGCCTCGGAGGTGTGGTGCCGTGCGGGTGCAGGAGCTGGGTGGCTGCAGCCAGGCCGGGAACCGCCACTG  
 CTTGAGTGCGCCACGCGGGGTACCTACGTGGATATCACCGTGGGACGCTTCGTGTGCCACCCTGC  
 TCCGGCCTCTGAGAGGGCTGAACCCCCCTCATCGTGTCAAGTCAATCTCCATGACAACCTTCACTGAGC  
 CTGAAGTAGTATTCTGCAATCCCGTGGAAATGAGGTTTGCCGGAAGATTTGGTTGGGTCTGTTGATGC  
 TCGGACATCTTTAGTACCAGATTCCAGGGATCCTCAGAAAGTGAAGGAGTTTCTCCAGGAAAAATATGAG  
 AAGAAGAGATGGTATGTCCCCCAGACCAAGTCAAGGGGCCACTATACCAAAGGCAGTGCCTCCACCC  
 CTGTGCAGGGCTCCATCCAGAAGGAAGCCCTTCGGACACTTCTGGGTGATCTGCACCGTCTCTCTC  
 AGTTGCTGCCTCCACCTCGAGCCAGCCCGTCAGTCAGTCTCACGCTCGGACATCCAGGCCCGGAGCACT  
 CAGCCACCTCCCCACTCCTGTCAAAAAAGCCAGTACTGACCTGCTGGCTGACATCGGTGGAGACCCCT  
 TTGCTGCACCCAGATGGCACCAGCTTTTGTGCATTCCCTGCCTTTGGGGGCCAGACACCTTCCAAGG  
 AGGCTTTGCCAATTTGATGCCTTTAGCAGTGGCCCCAGCTCTTCTGTGTTTGAAGCCTCCCTCCAGCT  
 GGTCAAGCCTCGTTCAGGCCAGCCAACCTCCTGCAGGGAGCAGCCAGGGGACTCCATTTGGTGCCACTC  
 CCCTGGCACCCGCCAGTCAGCCAACAGCCTCGCAGACGTGGGACGCTTCTGGGACCCGGGGTGGCCGC  
 TGCAGGTGTTCTAGCAGCCTCTTCGGGATGGCTGGCCAGGTCCCCCGCTCCAGTCTGTACGACGGGC  
 GCGCGCGCGGCAGCAGCACAGGGCTGGCCTTTGGAGCCTTACTAACCCTTTCACAGCTCCCGCCGCC  
 AGTCCCCGCTGCCTTCCACCAACCCGTTCCAGCCAATGGCTTGGCGCCAGGGCCCGCTTGGGATGAG  
 CAGTGTGGGCTGGCTTCCCCCAGGCAGTGCCACCCACTGGGGCCTTTGCCAGCTCCTTCCAGCACCG  
 CTGTTCCCCCGCAGACCCCGCTTGTTCAGCAGAGAATGGCTCTTCTTCCGGGACTTAGGATCAGCCA  
 AGTTGGGGCAGAGGCCACTGAGCCAGCCAGCTGGGATCTCCACCAACCCCTTCATGACTGGACCCTCATC  
 AAGCCATTGCTCCTCAAACCTCAACCACCAACCCCTTCTTG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG205687 representing NM\_006076  
 Red=Cloning site Green=Tags(s)

MVMAAKKGPGGVSGGKAEAAEASEVWRRVRELGGCSQAGNRHCFECAQRGVTVYVDITVGSFVCTTC  
 SGLLRGLNPPHRVKSISMFTTTEPEVVFLQSRGNEVCRKIWLGLFDARTSLVPDSRDPQKVKEFLQEKYE  
 KKRWYVPPDQVKGPTYTKGSASTPVQGSIPGKPLRLLGDPAPSLSVAASTSSQPVSQSHARTSQRST  
 QPPPHSSVKASTDLLADIGDPPFAAPQMAPFAAFPAFGGQTPSQGGFANFDFSSGPSSSVFGLSPPA  
 GQASFAQPTPAGSSQGTGATPLAPASQPNLADVGSFLGPGVPAAGVPSSLFGMAGQVPLQSVTTG  
 GGGSSSTGLAFGFTNPFTAPAAQSPLPSTNPFQPNGLAPGPGFMSSAGPFPQAVPPTGAFASSFPAP  
 LFPPQTPLVQQNGSSFDLGSAKLGQRPLSQPAGISTNPFMTGPSSSPFASKPPTTNPFL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_006076

**ORF Size:** 1443 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\\_006076.3](#), [NP\\_006067.2](#)

**RefSeq Size:** 2251 bp

**RefSeq ORF:** 1446 bp

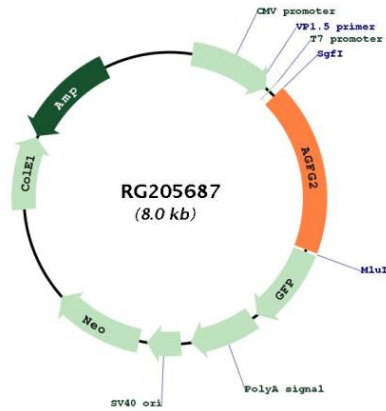
**Locus ID:** 3268

**UniProt ID:** [O95081](#)

**Cytogenetics:** 7q22.1

**Gene Summary:** This gene is a member of the HIV-1 Rev binding protein (HRB) family and encodes a protein with one Arf-GAP zinc finger domain, several phe-gly (FG) motifs, and four asn-pro-phe (NPF) motifs. This protein interacts with Eps15 homology (EH) domains and plays a role in the Rev export pathway, which mediates the nucleocytoplasmic transfer of proteins and RNAs. Alternatively spliced transcript variants have been described, but their biological validity has not been determined. [provided by RefSeq, Feb 2013]

**Product images:**



Circular map for RG205687