

Product datasheet for **MG218726**

Rerg (NM_001164214) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rerg (NM_001164214) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Rerg
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG218726 representing NM_001164214
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTAAGAGCGCAGAGGTCAAGCTGGCCATATTTGGAAGAGCGGGCGTGGCAAGTCAGAATCAACCT
ACCGACACCAGGCAACCATAGACGATGAAGTTGTTTCTATGGAGATCCTGGACACCGCTGGCCAGGAAGA
CACCATCCAGAGGGAAGGGCACATGCGCTGGGAGAAGGCTTCGTGTTGGTTTACGACATCACCGATCGA
GGGAGCTTCGAAGAAGTGTGCGCTGAAGAACATCTTAGATGAAGTCAAAAACCCAAAAACGTGACTC
TCATCTTGGTCGAAACAAAGCCGACTTGACCCTCCAGACAAGTGAGCACAGAAGAAGGGGAGAAGCT
GGCGACGGAAGTGGCGTGTGCGTTTTACGAATGTTCCGCCTGCACGGGAGAAGGGAACATCACGGAGGTG
TTCTATGAGCTCTGTCGAGAGGTGCGTCGAGAAGGATGGTGCAGGGCAAGACAAGGCGCCGAGCTCCA
CCACACACGTCAAGCAAGCGATTAACAAGATGCTCACAAAATCAGTAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG218726 representing NM_001164214
Red=Cloning site **Green**=Tags(s)

MAKSAEVKLAIFGRAGVGKSESTYRHQATIDDEVVSMEILDTAGQEDTIQREGHMRWGEFVLYVDITDR
GSFEEVLPKKNILDEVKPKNVTLILVGNKADLDHSRQVSTEEGEKLATELACAFYECSACTGEGNITEV
FYELCREVRRRMVQKTRRRSSTTHVKQAINKMLTKISS

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

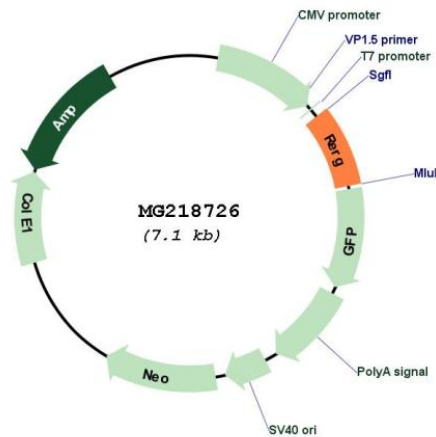


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001164214

ORF Size: 540 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.

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|-------------------------------|---|
| 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: | <u>NM_001164214.1, NP_001157686.1</u> |
| RefSeq Size: | 2197 bp |
| RefSeq ORF: | 543 bp |
| Locus ID: | 232441 |
| UniProt ID: | <u>Q8R367</u> |
| Cytogenetics: | 6 G1 |
| Gene Summary: | Binds GDP/GTP and possesses intrinsic GTPase activity. Has higher affinity for GDP than for GTP (By similarity).[UniProtKB/Swiss-Prot Function] |