

Product datasheet for **MG225022**

Rabggta (NM_019519) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rabggta (NM_019519) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rabggta
Synonyms:	gm
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG225022 representing NM_019519
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCATGGGCGCCTGAAGGTGAAGACGTCCGAAGAGCAGGCAGAGGCCAAAAGGCTAGAGCGGGAACAGA
 AGCTAAAGCTCTACCAGTCAGCCACTCAAGCTGTCTTCCAGAAGCGGGAGGCAGGCGAGCTGGATGAATC
 CGTCTAGAACTGACAAGCCAGATTCTGGGAGCCAACCCTGATTTTGCCACCCTCTGGAAGTGTCCGAGA
 GAAGTGTCCAGCAGCTAGAAACCCAGAAGTCCCTGAGGAGTTGGCTGCTCTTGTGAAGGCAGAACTAG
 GCTTCTTGAGAGCTGTCTGCGTGTGAACCCTAAGTCTATGGCACTTGGCACCACCGCTGCTGGCTGCT
 GAGTCGCCTGCCTGAGCCCAACTGGGCCGGGAGCTGGAGCTGTGCGCTCGCTTCTCGAGGCCGATGAG
 CGGAACTTTCATTGCTGGGACTATCGGCGATTTGTAGCTGCACAGGCTGCTGTGCGCCTGCAGAGGAAC
 TAGCCTTCACTGACAGCCTCATCACCCGGAAGTCTCCAAGTATCTTCTTCTGGCATTATCGCTCCTGCCT
 CTTGCCCCAGCTGCACCCAGCCAGACTCTGGCCCCAGGGACGGCTCCCTGAAAATGTACTGCTGAGA
 GAGCTGGAGTTGGTGCAGAAATGCCTTCTTACTGACCCCAATGATCAGAGTGCCTGGTCTATCACCGCT
 GGCTCCTGGGGCGGGCGAGCCCCACGATGTTCTGTGCTGCTGCATGTGAGCCGGGAAGAGGCCTGTCT
 GTCAGTCTGCTTTTCTCGTCCCCTGATAGTGGGCTCCAAGATGGGGACCTTGCTACTCACGGTTGACGAG
 GCACCTTTGAGTGTGGAATGGAGGACTCCAGATGGCAGGAACCGGCCAGCCATGTCTGGCTCTGTGACC
 TGCTGCTGCCTCTCTCAATGACCACCTTGGCCCAGCACACGTTTCGTGTCATCTGGACAGGAAGCGATAC
 CCAGAAGGAGTGTGTGCTTTAAAAGGTACCAGGAGTGTGGTGGCAGACTCAGCCACTGATGAACAG
 TTGTTCAAGTGTGAGCTGTCCGTGGAGAAGTCCACAGTGTACAGTCCGAGCTTGTGCTGTAAGGAGC
 TGCAGGAAGTGGAGCCTGAGAATAAATGGTGCCTGCTGACCATCATCTCCTGATGAGGGCACTGGACCC
 CCTCCTCTACGAGAAAGAAACACTGGAGTACTTCAAGTACCCTCAAAGCTGTGGACCCGATGAGAGCAGCC
 TACTTGGACGACCTGCGCAGCAAGTTCTTGGTGGAAAACAGTGTTCTCAAGATGGAGTATGCTGACGTGC
 GTGTGCTGCACCTGGCTCACAAGGATCTCACAGTGTCTGCCATTTGGAACAAGTCTTGGTCACTCA
 TCTTGACCTGTCCATAATCGTCTCCGAGCCTTGGCCCCAGCCCTGGCTGCTCTGCGCTGTCTCGAGGTG
 TTGCAGGCCAGTGATAATGCTCCTGGAGAAGTGGACGGCGTGGCTAACCTTCCCCGGTGCAGGAGCTGT
 TACTATGTAATAACCGCCTCCAGCAGTCTGCTGCACCTCAGACTTGCCTCCTGCCCCAGGCTAGTCTT
 CCTCAACTGCAGGGCAACTCGCTGTGCCAAGAAGAGGGCATCCGGGAGCGTTTGGCTGAGATGCTACCG
 TCCGTCAGCAGCATCCTACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG225022 representing NM_019519
 Red=Cloning site Green=Tags(s)

MHGRLKVKTSEEQAEAKRLEREQKLLKYQSATQAVFQKREAGELDESIVLELTSQILGANPDFATLWNCRR
 EVLQQLETQKSPEELAALVKAELGFLESCLRVNPKSYGTWHHRCWLLSRLPEPNWARELELCARFLEADE
 RNFHCWDYRRFVAAQAAPAEELAFDLSLITRNFSNYSSWHYRSCLLPQLHPQPDSPGQGRLPENVLLR
 ELEVQNAFFTDPNQSAWFYHRWLLGRAEPHDVLCCLHVSREEACLSVCFSRPLIVGSKMGTLLLTVDE
 APLSVEWRTPDGRNRPSHWLWCDLPAASLNDHLPQHTFRVIWGTSDTQKECVLLKGHQECWCWRSATDEQ
 LFRCELVEKSTVLQSELESCKELQELEPENKWCLLTIILLMRALDPLL YEKETLEYFSTLKAVDPMRAA
 YLDDLRSKFLVENSVLKMEYADVRVHLHLAKDLTVLCHLEQLLVTHLDL SHNRLRALPPALAALRCLEV
 LQASDNVLENLDGVANLPRLLRELLLCNNRLQQAALQTLASCPRLVFLNLQGNLQEEGIRERLAEMPL
 SVSSILT

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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_019519.3
RefSeq Size:	2547 bp
RefSeq ORF:	1704 bp
Locus ID:	56187
UniProt ID:	Q9JHK4
Cytogenetics:	14 28.19 cM
Gene Summary:	Catalyzes the transfer of a geranylgeranyl moiety from geranylgeranyl diphosphate to both cysteines of Rab proteins with the C-terminal sequence -XXCC, -XCXC and -CCXX, such as RAB1A, RAB3A, RAB5A and RAB7A.[UniProtKB/Swiss-Prot Function]