

Product datasheet for **MG216608**

Rasa2 (NM_053268) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rasa2 (NM_053268) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rasa2
Synonyms:	5430433H21Rik; AA517451; AU023900; GAP1m
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG216608 representing NM_053268
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGGCGGCAGCGCCTGCTGCGGCGGCTTCTCCGAGGCGCCGCGCTCTCGGCAGCGCAGACCCGG
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GCTCGATGAACCTCATGAGAAATACAGAAAAGAAAGATCGAGTAGTGAATAACGGAAGCAAGGAAAAT
CCAATTGTTGAAAAATATCA

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG216608 representing NM_053268
Red=Cloning site Green=Tags(s)

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MAAAPAAAAASPEAPAVSGSADPETGDEDSREVRVLQSLRGRIYEAKNLLPYLGPKNMRDCFCTINLDQE  
EYVRTQVVEKSLSPYFSEEFYFEIPRTFQYLSFYVYDKNVLQRDLRIGKVAIKKEDLCSHSGKETWFSLQ  
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VKKKTSNPQFNEVFYFEVTRSSYSRKSQFQVEEEDIEKLEIRIDLWNNENLVQDVFLGEIKVPVNLRS  
DSFHQAWYLLQPRDNGNKSSKTDDLGSLLLTLCTEDCVLPSEYYGPKLTKLLKSPDVQPVASAAAYILG  
EICQDQKDAVPLVRLLLHNNKLVPFITAVAELDKDTPDANAIFRGNLATQCLTEMMKIVGGHYLKVT  
LKPVLDEICSSKSCSIDPVKLKEGDNVENNKENLYYYVDKVFNTIVGSSVSCPTVMCDIFYSLRQMAAK  
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KKSVMCEFLKMFQEERYFTDVKKFLDEISSTETKESSTSEPVHLKEGEMKRAQGRTRIGKKNFKKRF  
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RVSRCNHNLSSFHPSAYLNGNWLCCQETSESTPGCKPCTAGIPADIQIDIDEDRETERIYSIFTLCLK  
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PIVGKIS
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TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul

ACCN:	NM_053268
ORF Size:	2541 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_053268.2 , NP_444498.2
RefSeq Size:	5699 bp
RefSeq ORF:	2544 bp
Locus ID:	114713
UniProt ID:	P58069
Cytogenetics:	9 E3.3
Gene Summary:	Inhibitory regulator of the Ras-cyclic AMP pathway. Binds inositol tetrakisphosphate (IP4) and phospholipids.[UniProtKB/Swiss-Prot Function]