

Product datasheet for **MG204666**

Grp2 (NM_010815) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grp2 (NM_010815) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Grp2
Synonyms:	Gads; GRAP-2; GRB2L; GRBLG; GrbX; Grf40; GRID; GrpL; Mona; P38
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204666 representing NM_010815 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGCCACTGCCAAGTTTGATTTTCATGGCCTCAGGTGAGGACGAACTGAGCTTTCGACTGGAGACA
TTCTGAAGATACTAAGCAACCAGGAGGAGTGGCTCAAGGCGGAGCTCGGAAGCCAAGAAGGATATGTGCC
TAAGAATTTTATAGATATCGAGTTTCTGAGTGGTCCATGAAGGCTCTCTCGACATCAAGCAGAAAAC
TTACTCATGGCAAGGACATTGGATTCTTCATCATCAGGGCCAGCCAGAGTTCCCAGGAGACTTCTCCA
TCTCTGTCAGGCACGAGGACGACGTTCCAGCACTCAAAGTCATGCGTGACACCAAGGGCAATTACTTCT
GTGGACCGAGAAGTTCCCATCTTAAATAAGCTGGTGGACTACTACCGGACAACGTCATCTCCAACAG
AAGCAGGTCTTCTTCGGATGGAACCCAAGATCAGGGTCACCGGGCAACAGCCTGGACAGGAGGTCCC
AGGGCGGCCCTCACCCGAGTGAACCGTAGGAGAAGAAATCCGACCTTCAGTGAACCGGAAGCTGTGAGA
CCACCTTCTCTGGTCCCAGCAGTTCACCCGACCCAGCAGCCGTCACCCAGTTCACACCAGGGCCG
CAGCCCCCTCAACAGCAGCGTTATCTGCAGATTTCCACCAGGACCGTGTGGGGCAGCCTGGACATAA
ACGATGGACACTGCGGCCTTGAAGTGAGGTGAACGCCACGCTGATGCACCGGAGACACCCGACCCCGT
ACAACCTCAGGCAGCAGGGCGGGTGCCTTGGGCCAGGGCACTGTATGACTTTGAGGCTCTGGAAGAGGAC
GAGCTGGGATCCGAAGCGGAGAAGTGGTTGAAGTCCTGGACAGCTCAACCCATCTTGGTGACCGGCC
GTCTGCACAACAACTGGGTCTCTTCCCTGCCAACTATGTGGCCCCATGATGCGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204666 representing NM_010815
 Red=Cloning site Green=Tags(s)

MEATAKFDPMASGEDEL SFRTGDILKILSNQEEWLKAELGSQEGYVPKNFIDIEFPEWFHEGLSRHQAE
 LLMGKDIGFFIIRASQSSPGDFSISVRHEDDVQHFVKMRDTKGNVFLWTEKFPSLNKLVYYRTTTSISKQ
 KQVFLRDGTQDQGHGRNSLDRRSQGGPHPSGTVGEEIRPSVNRKLSHDLPLGPQQFHHPHQQPSQFTPGP
 QPPQQRYLQHFHQDRRGGSLDINDGHCLGSEVNATLMHRRHTDPVQLQAAGRVRWARALYDFEALEED
 ELGFRSGEVVEVLDSSNPSWWTGRLHNKLG LFPANYVAPMMR

TRTRPLE - GFP Tag - V

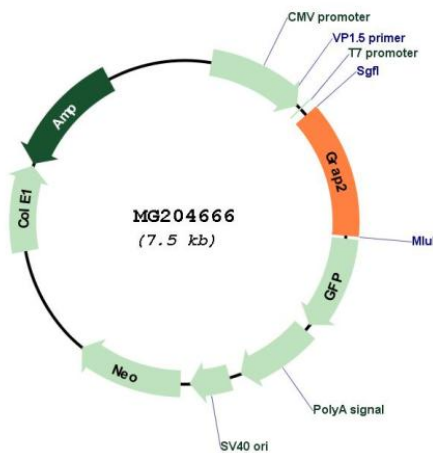
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_010815

ORF Size: 966 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_010815.3
RefSeq Size:	2919 bp
RefSeq ORF:	969 bp
Locus ID:	17444
UniProt ID:	O89100
Cytogenetics:	15 E1
Gene Summary:	Interacts with SLP-76 to regulate NF-AT activation. Binds to tyrosine-phosphorylated shc. [UniProtKB/Swiss-Prot Function]