

Product datasheet for **MG205250**

Gmpr2 (NM_177992) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gmpr2 (NM_177992) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gmpr2
Synonyms:	1810008P16Rik; 5730544D12Rik; AA959850; GMPR 2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205250 representing NM_177992 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTCATATTGATAATGATGTGAACTTGACTTCAAGGATGTCCTGTTGAGGCCCAAACGCAGCACTC
TTAAGTCTCGAAGTGAGGTAGAGCTCACAAGATCATTTTCGTTCCGGAACCAAAGCAGATGTACAGTGG
CATCCCTGTCATTGCTGCCAATATGGATACCGTGGGCACCTTTGAAATGGCTAGGGTTCTCTGTAAGTTC
TCCCTGTTCACTGCCATCATAAGCACTACAGCATCCATCAGTGGCAAGAGTTTGTAGCCAGAATCCTG
ACTGTCCTTGAGTGTCTAGCTGCCAGCTCAGGCACAGGCTCTGCTGACTTTGAGCAGCTGGAACAGATCCT
GGAAGCTATCCCAAGTCAAATATATATGCCTGGATGTGGCTAACGGCTACTCTGAACATTTTGTGAA
TTTGTAAGGATGTACGGAAGCGATTCCCCAACACACCATCATGGCAGGAAATGTGGTAACAGGAGAGA
TGGTAGAAGAGTTAATCCTCTCTGGGGCTGACATCATCAAAGTGGGAATTGGTCCTGGCTGTCTGTAC
AACTCGGAAGAAAAGTGGAGTGGGGTATCCACAGCTCAGTGCAGTGATGGAGTGTGCAGATGCTGCTCAT
GGCCTCAAAGGCCATATCATCTCAGATGGAGGCTGCAGCTGTCTGGGGATGTGGCAAAGGCTTTTGGGG
CAGGGGCTGACTTTGTGATGTTGGGTGGCATGCTGGCCGGGCACAGTGAATCAGGTGGCGAACTCATTGA
GAGAGATGGCAAGAAATATAAGCTTTCTACGGAATGAGTTCTGAAATGGCCATGAAGAAGTACTCAGGA
GGTGTGGCTGAGTACAGGGCCTCAGAGGAAAGATAGTAGAAGTCCCCTTTAAAGCGGATGTGGAACATA
CTATTCGTGACATCCTAGGAGGCATCCGGTCTACATGCACGTATGTAGGGGCTGCTAAACTGAAGGAACT
AAGCCGGAGAAGTACTTTTATCCGAGTCAACCAGCAAGTGAATCCAATCTTCAGCAATTCAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205250 representing NM_177992
 Red=Cloning site Green=Tags(s)

MPHIDNDVKLDFKDVLLRPKRSTLKSRSSEVEL TRSF SFRNSKQMYSGIPVIAANMDTVGTFEMARVLCFK
 SLFTA IHKHYSIHQWQEFASQNPDCLECLAASSGTGSADFEQLEQILEAIPQVKYICLDVANGYSEHFVE
 FVKDVRKRFPQHTIMAGNVVTGEMVEELILSGADIKVGIGPGSVCTTRKKTGVGYPLSAVMECADA AH
 GLKGHIISDGGCSCP GDVAKAFGAGADFVMLGGMLAGHSESGGELIERDGKKYKLFYGMSEMAMKKYSG
 GVAEYRASEGKIVEVPFKGDVEHTIRDILGGIRSTCTYVGA AKLKELSRRTTFIRVTQVNP IFSNSQ

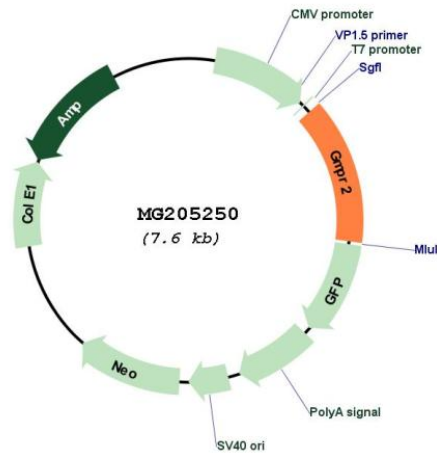
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_177992

ORF Size: 1044 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_177992.2 , NP_818773.1
RefSeq Size:	1560 bp
RefSeq ORF:	1047 bp
Locus ID:	105446
UniProt ID:	Q99L27
Cytogenetics:	14 C3
Gene Summary:	Catalyzes the irreversible NADPH-dependent deamination of GMP to IMP. It functions in the conversion of nucleobase, nucleoside and nucleotide derivatives of G to A nucleotides, and in maintaining the intracellular balance of A and G nucleotides (Probable). Plays a role in modulating cellular differentiation (By similarity).[UniProtKB/Swiss-Prot Function]