

Product datasheet for **MG205266**

Rho (NM_145383) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rho (NM_145383) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rho
Synonyms:	Noerg1; Opn2; Ops; RP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205266 representing NM_145383 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACGGCACAGAGGGCCCAATTTTTATGTGCCCTTCTCCAACGTCACAGGCGTGGTGGGAGCCCT
TCGAGCAGCCGAGTACTACCTGGCGGAACCATGGCAGTTCTCCATGCTGGCAGCGTACATGTTCTCTGCT
CATCGTGTGGGCTTCCCATCAACTTCCTCACGCTCTACGTACCGTACAGCACAAGAAGCTGCGCACA
CCCCTCAACTACATCCTGCTCAACTTGGCCGTGGCTGACCTTTCATGGTCTTCGGAGGATTCAACCA
CCCTCTACACATCACTCCATGGCTACTTGTCTTTGGGCCACAGGCTGTAACTCGAGGGCTTCTTTGC
CACACTTGGAGGTGAAATCGCCCTGTGGTCCCTGGTGGTCTGGCCATTGAGCGCTACGTGGTGGTCTGC
AAGCCGATGAGCAACTTCCGCTTCGGGGAGAATCACGCTATCATGGGTGGTCTTCACCTGGATCATGG
CGTTGGCCTGTGCTGCTCCCCACTCGTTGGTGGTCCAGGTACATCCCTGAGGGCATGCAATGTTTCATG
CGGGATTGACTACTACACTCAAGCCTGAGGTCAACAACGAATCCTTTGTATCATGTTTCGTGGTC
CACTTCAACATTCCTATGATCGTCATCTTCTTCTGCTATGGCAGCTGGTCTTACAGTCAAGGAGGCGG
CTGCCAGCAGCAGGAGTCAGCCACCACTCAGAAGGCAGAGAAGGAAGTCAACCCGATGGTTATCATCAT
GGTCATCTTCTCTGATCTGCTGGCTTCCCTACGCCAGTGTGGCCTTCTACATCTTCAACCCAGGGC
TCCAACCTCGGCCCATCTTTCATGACTCTGCCAGCTTTCTTTGCTAAGAGCTCTTCCATCTATAACCCGG
TCATCTACATCATGTTGAACAAGCAGTTCGGAACTGTATGCTACCCAGCTGTGCTGCGGCAAGAATCC
ACTGGGAGATGACGACGCTCTGCCACCGCTTCAAGACGGAGACCAGCCAGGTGGTCCAGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205266 representing NM_145383
Red=Cloning site Green=Tags(s)

MNGTEGPNFYVFPFSNVTGVVRSPEFQPQYYLAEPWQFSMLAAYMFLILVIGFPINFLTYVTVQHKKLRT
 PLNYILLNLAVADLFMVFGGFTTLYTSLHGYFVFGPTGCNLEGGFATLGGIEALWLVLAIERIVVVC
 KPMSNFRFGENHAIMGVVFTWIMALACAAPPLVGWSRYIPEGMQCSGIDYYTLKPEVNNESFVIYMFVV
 HFTIPMIVIFFCYGQLVFTVKEAAAQQQESATTQKAEKEVTRMVIIMVIFFLICWLPYASVAFYIFTHQG
 SNFGPIFMTLPAFFAKSSSIYNPVIYIMLNKQFRNCMLTTLCCGKNPLGDDASATASKTETSQVAPA

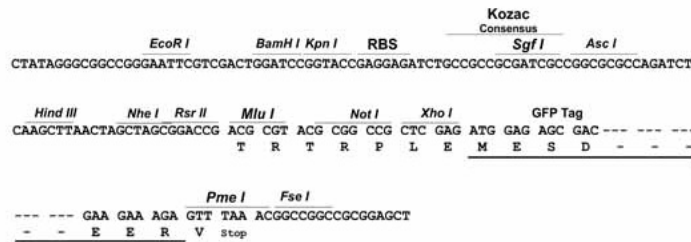
TRTRPLE - GFP Tag - V

Restriction Sites:

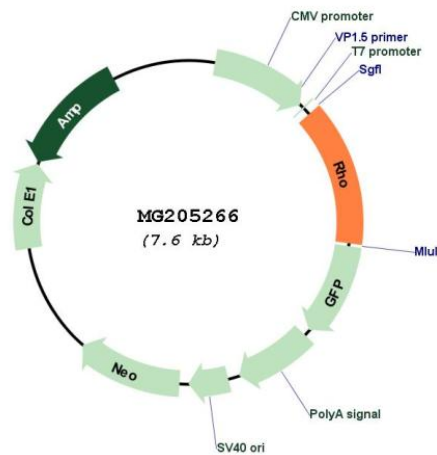
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_145383

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_145383.2
RefSeq Size:	3249 bp
RefSeq ORF:	1047 bp
Locus ID:	212541
UniProt ID:	P15409
Cytogenetics:	6 53.72 cM
Gene Summary:	Photoreceptor required for image-forming vision at low light intensity. Required for photoreceptor cell viability after birth (PubMed:9020854). Light-induced isomerization of 11-cis to all-trans retinal triggers a conformational change that activates signaling via G-proteins. Subsequent receptor phosphorylation mediates displacement of the bound G-protein alpha subunit by the arrestin SAG and terminates signaling (PubMed:27353443).[UniProtKB/Swiss-Prot Function]