

Product datasheet for MC212573

Rho (NM_145383) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rho (NM_145383) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rho
Synonyms:	Noerg1; Opn2; Ops; RP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC212573 representing NM_145383 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACGGCACAGAGGGCCCAATTTTTATGTGCCCTTCTCCAACGTCACAGGCGTGGTGCGGAGCCCT
TCGAGCAGCCGAGTACTACCTGGCGGAACCATGGCAGTTCTCCATGCTGGCAGCGTACATGTTCTGCT
CATCGTGTGGGCTTCCCACCACTTCTCACGCTCTACGTACCGTACAGCACAAGAAGCTGCGCACA
CCCCTCAACTACATCCTGCTCAACTTGGCGTGGCTGACCTTTCATGGTCTTCGGAGGATCACCACCA
CCCTCTACACATCACTCCATGGCTACTTGTCTTTGGGCCACAGGCTGTAACTCGAGGGCTTCTTTGC
CACACTTGGAGGTGAAATCGCCCTGTGGTCCCTGGTGGTCTGGCCATTGAGCGCTACGTGGTGGTCTGC
AAGCCGATGAGCAACTTCCGCTTCGGGGAGAATCACGCTATCATGGGTGGTCTTCACCTGGATCATGG
CGTTGGCCTGTGCTGCTCCCCACTCGTTGGTGGTCCAGGTACATCCCTGAGGGCATGCAATGTTTCATG
CGGGATTGACTACTACACTCAAGCCTGAGGTCAACAACGAATCCTTTGTATCATGTTTCGTGGTC
CACTTACCATTCCATGATCGTCATCTTCTTCTGCTATGGGCAGCTGGTCTTACAGTCAAGGAGGCGG
CTGCCAGCAGCAGGAGTCAGCCACCACTCAGAAGGCAGAGAAGGAAGTCACCCGCATGGTTATCATCAT
GGTCATCTTCTTCTGATCTGCTGGCTTCCCTACGCCAGTGTGGCCTTCTACATCTTCAACCACAGGGC
TCCAACCTCGGCCCATCTTCACTGACTTCCAGCTTTCTTTGCTAAGAGCTTTCATCTATAACCCGG
TCATCTACATCATGTTGAACAAGCAGTTCGGAACTGTATGCTACCACGCTGTGCTGCGGCAAGAATCC
ACTGGGAGATGACGACGCTCTGCCACCGCTTCAAGACGGAGACCAGCCAGGTGGTCCAGCCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_145383
Insert Size:	1047 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	BC013125 , AAH13125
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]