

Product datasheet for **RR211712**

Rho (NM_033441) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rho (NM_033441) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Rho
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR211712 representing NM_033441
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACGGCAGAGGGCCCAATTTTTATGTGCCCTTCTCAACATCACGGGCGTGGTGCCGAGCCCT
TTGAGCAGCCGAGTACTACCTGGCGGAGCCATGGCAGTTCTCCATGCTGGCAGCCTACATGTTCTCTGCT
CATCGTGTGGGTTCCCATCAACTTCTCACGCTCTACGTCACCGTACAGCACAAGAAGCTGCGCACA
CCACTCAACTACATCCTGCTCAACTTGGCTGTGGCTGACCTCTTCATGGTCTTCGGAGGATTCACCACCA
CCCTCTACACCTCACTGCATGGCTACTTTGTCTTTGGGCCACAGGCTGCAACCTTGAGGCTTCTTTGC
CACCCCTGGAGGTGAAATCGGCCTGTGGTCCCTGGTAGTCCTGGCCATTGAGCGCTACGTGGTGGTCTGC
AAGCCCATGAGCAACTTCCGCTTTGGGAGAATCATGCCATTATGGGTGTGGCCTTACCTGGGTGATGG
CGTTGGCCTGTGCTGCTCCCCACTGGTGGTGGTCCAGGTACATCCCCGAGGGCATGCAGTGTTCATG
TGGGATTGACTACTATACTCAAGCCTGAGGTCAACAATGAGTCCTTCGTCATCTACATGTTTCGTGGTC
CACTTACCATCCCCATGATCGTCATCTTCTTCTGCTACGGGCAGCTGGTCTTACCAGTCAAGGAGGCCG
CCGCCAGCAACAGGAGTCGGCTACCACTCAGAAGGCAGAGAAGGAAGTCACGCGCATGGTCATCATCAT
GGTCATCTTCTTCTGATCTGCTGGCTTCCCTATGCCAGTGTGGCCATGTACATCTTACCACAGGGC
TCCAACCTCGGCCCATCTTCATGACCCTTCCCGCTTTCTTTGCTAAGACCGCCTCCATCTACAACCCAA
TCATCTACATCATGATGAACAAGCAGTTCGGAACTGCATGCTCACCACGCTCTGCTGCGGCAAGAATCC
ACTGGGAGATGATGAGGCCTCTGCCACTGCCTCCAAGACGGAGACCAGCCAGGTGGTCCAGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR211712 representing NM_033441
 Red=Cloning site Green=Tags(s)

MNGTEGPNFYVPFSNITGVVRSPEQPQYYLAEPWQFSMLAAYMFLILVGFPINFLTYVTVQHKLR
 PLNYILLNLAVADLFMVFGGFTTLYTSLHGYFVFGPTGCNLEGGFATLGGEIGLWLVLAIERVYVVC
 KPMSNFRFGENHAIMGVAFWVMALACAAPPLVGWSRYIPEGMQCSGIDYITLKPEVNNESFVIYMFV
 HFTIPMIVIFFCYGQLVFTVKEAAAQQQESATTQKAEKEVTRMVIIMVIFFLICWLPYASVAMYIFTHQ
 SNFGPIFMTLPAFFAKTASIYNPIIYIMMNKQFRNCMLTTLCCGKNPLGDDEASATASKTETSQVAPA

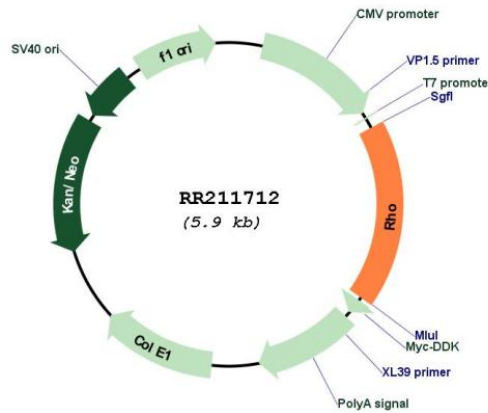
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_033441

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_033441.1 , NP_254276.1
RefSeq Size:	1493 bp
RefSeq ORF:	1047 bp
Locus ID:	24717
UniProt ID:	P51489
Cytogenetics:	4q42
MW:	39.1 kDa
Gene Summary:	visual pigment protein of rod photoreceptors involved in G-protein coupled receptor mediated signaling and phototransduction [RGD, Feb 2006]