

Product datasheet for **SC300090**

Rhodopsin (RHO) (NM_000539) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rhodopsin (RHO) (NM_000539) Human Untagged Clone
Tag:	Tag Free
Symbol:	Rhodopsin
Synonyms:	CSNBAD1; OPN2; RP4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_000539 edited
 CCAGCTGGAGCCCTGAGTGGCTGAGCTCAGGCCTTCGACGATTCTTGGGTGGGAGCAGC
 CACGGGTCAGCCACAAGGGCCACAGCCATGAATGGCACAGAAGGCCCTAACTTCTACGTG
 CCCTTCTCCAATGCGACGGGTGTGGTACGACGCCCTTCGAGTACCCACAGTACTACCTG
 GCTGAGCCATGGCAGTTCTCCATGCTGGCCGCCTACATGTTTCTGCTGATCGTGCTGGGC
 TTCCCATCAACTTCTCAGCTCTACGTACCGTCCAGCACAAGAAGCTGCGCACGCCT
 CTCAACTACATCTGCTCAACCTAGCCGTGGCTGACCTCTTCATGGTCTAGGTGGCTTC
 ACCAGCACCTCTACACCTCTCTGCATGGATACTTCGTCTTCGGGCCACAGGATGCAAT
 TTGGAGGGCTTTTCCACCCTGGGCGGTGAAATTGCCCTGTGGTCTTGGTGGTCTG
 GCCATCGAGCGGTACGTGGTGTGTAAGCCCATGAGCAACTCCGCTTCGGGGAGAAC
 CATGCCATCATGGCGTTGCCTTCACTGGGTCATGGCGTGGCCTGCGCCGACCCCA
 CTCGCCGCTGGTCCAGGTACATCCCCGAGGGCCTGCAGTGTCTGTGGAATCGACTAC
 TACACGCTCAAGCCGGAGGTCAACAACGAGTCTTTTGTATCTACATGTTCTGTTGCCAC
 TTCACCATCCCCATGATTATCATCTTTTCTGCTATGGGCAGCTCGTCTTACCCTCAAG
 GAGGCCGTGCCAGCAGCAGGAGTCAGCCACCACACAGAAGGCAGAGAAGGAGGTCAAC
 CGCATGGTCATCATATGGTTCATCGCTTCTGATCTGCTGGGTGCCCTACGCCAGCGTG
 GCATTCTACATCTTACCACCAGGGCTCCAACCTCGGTCCCCTTTCATGACCATCCCA
 GCGTCTTTGCCAAGAGCGCCCATCTACAACCTGTCTATATCATGATGAACAAG
 CAGTTCGGAACTGCATGCTACCACCATCTGCTGCGGCAAGAACCCTGGGTGACGAT
 GAGGCTCTGCTACCGTGTCCAAGACGGAGACGAGCCAGGTGGCCCGGCCTAAGACCTG
 CCTAGGACTCTGTGGCCGACTATAGGCGTCTCCATCCCCTACACCTTCCCCAGCCACA
 GCCATCCCACCAG

Restriction Sites:	Please inquire
ACCN:	NM_000539
Insert Size:	1200 bp



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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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_000539.2 , NP_000530.1
RefSeq Size:	2767 bp
RefSeq ORF:	1047 bp
Locus ID:	6010
UniProt ID:	P08100
Cytogenetics:	3q22.1
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	The protein encoded by this gene is found in rod cells in the back of the eye and is essential for vision in low-light conditions. The encoded protein binds to 11-cis retinal and is activated when light hits the retinal molecule. Defects in this gene are a cause of congenital stationary night blindness. [provided by RefSeq, Aug 2017]