

Product datasheet for **SC309075**

Retinal protein 4 (UNC119) (NM_054035) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Retinal protein 4 (UNC119) (NM_054035) Human Untagged Clone
Tag:	Tag Free
Symbol:	UNC119
Synonyms:	HRG4; IMD13; POC7; POC7A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC309075 representing NM_054035. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGAAGGTGAAGAAGGGCGCGGTGGGGCCGGGACGGCGACGGAGTCCGCTCCGGGGCCCTCGGGCCAG
AGCGTGGCCCCCATACCACAGCCGCCTGCGGAATCCGAATCTGGGTCCGAGTCGGAGCCGGACGCAGGC
CCAGGGCCAGGGCCGGGGCCGCTGCAGAGGAAGCAGCCGATCGGGCCGGAGGACGTGCTGGGGCTGCAG
CGGATCACCGGTGACTACCTCTGCTCCCCTGAGGAGAATATCTACAAGATCGACTTTGTCAAGTTAAG
ATTCGGGACATGGACTCAGGCACTGTCTCTTTGAAATCAAGAAGCCCCAGTCTCAGAACGTTGCC
ATCAACCGGGCGGACCTGGACCCCAATGTGGGCGCTTTGTCCGCTACCAGTTCACGCCTGCCTTCCTC
CGCCTGAGGCAGGTGGGAGCCACGGTGGAGTTCACAGTGGGAGACAAGCCTGTCAACAACCTCCGCATG
ATCGAGAGGCACTACTTCGCAACCAGCTACTCAAAGCTTCGACTTCCACTTTGGCTTCTGCATCCCC
AGCAGCAAGAACCTGCGAGCACATTTACGACTTCCCCCTCTCTCCGAGGAGCTGAGTGCGCGGGCA
GGGTCTTCTGGGAGTGGGGAAGTGGGGCGTCTAGAGACTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-Mlul
Plasmid Map:	<input type="checkbox"/>
ACCN:	NM_054035
Insert Size:	663 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_054035.2
RefSeq Size:	1665 bp
RefSeq ORF:	663 bp
Locus ID:	9094
UniProt ID:	Q13432
Cytogenetics:	17q11.2
Protein Families:	Druggable Genome, Stem cell - Pluripotency
MW:	24.1 kDa
Gene Summary:	<p>This gene is specifically expressed in the photoreceptors in the retina. The encoded product shares strong homology with the <i>C. elegans</i> unc119 protein and it can functionally complement the <i>C. elegans</i> unc119 mutation. It has been localized to the photoreceptor synapses in the outer plexiform layer of the retina, and suggested to play a role in the mechanism of photoreceptor neurotransmitter release through the synaptic vesicle cycle. Two transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) has an additional segment in the 3' region compared to transcript variant 1. This results in a shorter isoform (b) with a distinct C-terminus compared to isoform a.</p>