

Product datasheet for **SC116910**

Retinal protein 4 (UNC119) (NM_005148) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Retinal protein 4 (UNC119) (NM_005148) Human Untagged Clone
Tag:	Tag Free
Symbol:	Retinal protein 4
Synonyms:	HRG4; IMD13; POC7; POC7A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116910 sequence for NM_005148 edited (data generated by NextGen Sequencing)

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ATGAAGGTGAAGAAGGGCGGCGGTGGGGCCGGGACGGCGACGGAGTCCGCTCCGGGGCCC
TCGGGCCAGAGCGTGGCCCCATACCACAGCCGCTGCGGAATCCGAATCTGGGTCCGAG
TCGGAGCCGGACGCAGGCCAGGGCCCAGGCCGGGGCCGCTGCAGAGGAAGCAGCCGATC
GGGCCGGAGGACGTGCTGGGGCTGCAGCGGATCACCGGTGACTACCTCTGCTCCCCTGAG
GAGAATATCTACAAGATCGACTTTGTCAGGTTTAAAGATTCGGGACATGGACTCAGGCACT
GTCCTCTTTGAAATCAAGAAGCCCCAGTCTCAGAACGGTTGCCATCAACCGCGGGAC
CTGGACCCCAATGCTGGGCGCTTTGTCCGCTACCAGTTCACGCCTGCCTTCTCCGCTG
AGGCAGGTGGGAGCCACGGTGGAGTTCACAGTGGGAGACAAGCCTGTCAACAACCTCCGC
ATGATCGAGAGGCACTACTTCCGCAACCAGCTACTCAAAAGCTTCGACTTCCACTTTGGC
TTCTGCATCCCCAGCAGCAAGAACACCTGCGAGCACATTTACGACTTCCCCCTCTCTCC
GAGGAGCTGATCAGCGAGATGATCCGCCACCCGTATGAGACCCAGTCTGACAGCTTCTAC
TTCGTGGATGACCGGCTGGTGATGCACAATAAAGCAGACTATTCTACAGCGGGACACCC
TGA
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Clone variation with respect to NM_005148.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_005148 unedited</p> <pre> TTCCCCCGCTTGNCGCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGA GCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCGAAT TCGGCAGGAGGACAGGCGAGCCTCGGCCCGCAAGGCCATGAAGGTGAAGAAGGGCGGC GGTGGGGCCGGGACGGGACGGAGTCCGCTCCGGGGCCCTCGGGCCAGAGCGTGGCCCC ATACCACAGCCGCTGCGGAATCCGAATCTGGGTCCGAGTCCGAGCCGGACGCAGGCCCA GGGCCACGGCCGGGCGCTGCAGAGGAAGCAGCCGATCGGGCCGGAGGACGTGCTGGGG CTGCAGCGGATCACCGGTGACTACCTCTGCTCCCTGAGGAGAATATCTACAAGATCGAC TTTGTCAGGTTTAAAGATTCGGGACATGGACTCAGGCACTGTCTCTTTGAAATCAAGAAG CCCCAGTCTCAGAACGGTTGCCCATCAACCGGCGGGACCTGGACCCCAATGCTGGGCGC TTTGTCCGCTACCAGTTCACGCCTGCCTTCTCCGCTGAGGCAGGTGGGAGCCACGGTG GAGTTCACAGTGGGAGACAAGCCTGTCAACAACCTCCGCATGATCGAGAGGCACTACTTC CGNACCAGCTACTCANAAGCTTCGACTTCCACTTTGGCTTCTGCATCCCCAGCAGCAAG AACACCTGCGAGCACATTTACGACTNTCCCTCTCTCCGAGGAGCTGATCAGCGAGATG ATCCGCCACCCGATGAGACCCAGTCTGACAGCTTCTACTTCGTGGATGACCGGCTGNTG ATGCACATANAGCAGACTATTCCTACAGCGGGACACCCTGACCCACGGCTGCCCTGACCC AGAGGCTCCAGTNTTGGCTGGNAGNNTGTGACTCCNANNGCTACCCCTACCCAGTCTT GTT </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_005148 unedited</p> <pre> NNNNAAGGGTCCACTATGNACCCGCGCCGCATNCTAGGATCGAGTTTTTTTTTTTTT TTTTTGAACAGAAAAGGAAAAATTTATTGAAAATATATACAGTTGGTCCAGCTCCTACC ATGGGCTGCAATCTCAGCCAGTCCCTCCCACACCTTAGGCAGTGTCTTGGCCCTCATGG GGAGGGATGGGGCTAGGCTAGGCCCCAGACTCCCTTGGGTGGCTTGGCAGCTGGAGCCC AACGTGGATCTTTGTAATTTACAACCTAAATGGCCTGAAGGTAGTGGGCAGGGGACAG GGAATGGATCCCTGCCTGATCTAATCACAGCCTTGATAGGGGAACACTATTCTGAAACTT GGGCCAAGTAGGGCCAGCTAAGTTGTCCGGAAGTCTGACTGCTCCTATCACAGGCTT TCCTAGACGTGGAGGCAACAGCCTCCCTACGACCCACCCCATGTAGCAGGCCGCATGG GCTTATGGGCTTACTGGGACACCAGTACCCTTCTCCCAACATTGACTCAGGGTCC CGAGCTCCTGGAGAACTCCCAACAGAACTTTGGGTTAAGGGTGAAGGTTGGGGAG GTCACAACCTCCCAACCAACTGGAGCCTCCTGGGGCAAGGCACCCCGGGGTCAGG GGTCCCTGTAGAAATAAACCGCTTTATTGGGATCACCAACCCGGCATTCCCCAAAT ATAAACACGCCAACTGGGTCCATACCGGGGGGGATCAACCCCTGAACACCCCCCGG AAGAGGGGGGAACGGCAAGAGGCTCCAGGGGTCTTGCTCGTGGGAGGCCCAACCCAC AACGGAATC </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_005148
Insert Size:	1500 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:	NM_005148.2 , NP_005139.1
RefSeq Size:	1395 bp
RefSeq ORF:	723 bp
Locus ID:	9094
UniProt ID:	Q13432
Cytogenetics:	17q11.2
Domains:	GMP_PDE_delta
Protein Families:	Druggable Genome, Stem cell - Pluripotency
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 (1) represents the most abundant transcript, and encodes the full-length isoform (a) of 240 aa.</p>