

Product datasheet for **SC322586**

Encephalopsin (OPN3) (NM_014322) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Encephalopsin (OPN3) (NM_014322) Human Untagged Clone
Tag:	Tag Free
Symbol:	Encephalopsin
Synonyms:	ECPN; PPP1R116
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for SC322586
 CAGGCGGCGGAGCCCAACCCACCCAGTGC GGAGCGCGCCGCGAGCCCCGCGCAAGCT
 GAGCGCCTCCGCCCGCCAGGCGCGCCGGCGCCGGGCCATGTA CT CGGGGAACCGCAGCGG
 CGGCCACGGCTACTGGGACGGCGCGGGGCCGCGGGCGCTGAGGGGCCGGCGCCGGCGGG
 GACTGAGCCCCGCGCCCTCTCAGCCCCGGCACCTACGAGCGCCTGGCGTGTCTGCT
 GGGCTCCATTGGGCTGCTGGGCGTGGCAACAACCTGCTGGTGTCTCGTCTCTACTACAA
 GTTCCAGCGGCTCCGCACTCCCACTCACCTCCTCTGGTCAACATCAGCCTCAGCGACCT
 GCTGGTGTCCCTCTTCGGGGTCACTTTACCTTGTGTCTCTGCCTGAGGAACGGCTGGGT
 GTGGGACACCGTGGGCTGCGTGTGGGACGGGTTTAGCGGCAGCCTCTTCGGGATTGTTTC
 CATTGCCACCCTAACCGTGTGGCCTATGAACGTTACATTGCGGTGGTCCATGCCAGAGT
 GATCAATTTTTCTGGGCTGGAGGGCCATTACCTACATCTGGCTCTACTACTGGCGTG
 GGCAGGAGCACCTCTCTGGGATGGAACAGGTACATCCTGGACGTACACGGACTAGGCTG
 CACTGTGGACTGGAATCCAAGGATGCCAACGATTCTCTTTGTGCTTTTCTTATTTCT
 TGGCTGCCTGGTGGTCCCTGGGTGTCATAGCCATTGCTATGGCCATATTCTATATTC
 CATTCGAATGCTTCGTTGTGGGAAGATCTTCAGACAATCAAGTATCAAGATTTTAAA
 ATATGAAAAGAACTGGCCAAAATGTGCTTTTTAATGATATTACCTTCCTGGTCTGTTG
 GATGCCTTATATCGTGATCTGCTTCTTGGTGGTAAATGGTCATGGTCACCTGGTCACTCC
 AACAAATCTATTGTTTCGTACCTCTTTGCTAAATCGAACACTGTATACAATCCAGTGAT
 TTATGTCTTATGATCAGAAAAGTTTCAAGATCCCTTTTGCAGCTTCTGTGCCTCCGACT
 GCTGAGGTGCCAGAGGCTGCTAAAGACCTACCAGCAGCTGGAAGTGAATGCAGATCAG
 ACCCATTTGTGATGTCACAGAAAGATGGGGACAGGCCAAAGAAAAAAGTACTTTCAACTC
 TTCTTCCATCATTTTTATCATCACCAGTGAATCACTGTCAGTTGACGACAGCGACAA
 AACCAATGGGTCCAAGTTGATGTAATCCAAGTTCGCTTTTGTAGGAATGAAGAATGGC
 AACGAAAAGATGGGCCTTAAATTGGATGCCACTTTTGGACTTTTCATCATAGAAGTGTCT
 GGAATACCGTTCTATGTAATATCAACAGAACCTTGTGGTCCAGCAGGAAATCCGAATTG
 CCCATATGCTCTTGGGCTCAGGAAGAGGTTGAACAAAAACAAATCTTTTAATTCAACG
 GGTGCTTTACATAATGAAAAACCACTTGTGGCACACGATGGGCATCTAACATCATCATC
 TTCTAATGTGTTGGAGATTTTCATTTCAAATATATTTTTAAATTA CTCTATTTTCCAAA
 ACACGTTAATGCATTTTTCTCGAAAATACCTTACTGTAATAAATACTGTCGCGTACACAT
 GTGTGAAGTAGCTAGAACATACTGAATTTTTTTTGTACTGTTGGACTCTATTCAGTGTC
 TGTCCTATATCTGATCAAGTTATCAAGGAGATAATTCTAGAATGAAAAGAAAATCCTCT
 TGTGGAAAACAAAAGACGTTTTATATGTGCAAGTATGACAAAAGAGGAGTTTCAGAGACAAC
 TTTGAATCCTTGTGAGCCTGGAGACCAGCACAGGAAATCTACAAGGCAAACTCCCAT
 TATTTGCTTCCCCAAATTGCTGCCCTACAGACTCAAAGCTCTTTTCTTTGTTTTGTT
 GTTTCTCTAAAAATTTACTGTTCTTTGTCGATGCTATATAAGCCAGGGAGTTCTAAGACG
 CCAGCTCTTTGAGATTTGCTCATTCCCCTGTATTTCCACATATATATTACATATACCCG
 CTAATAAATTTATGTTTGTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AAA

Restriction Sites: Please inquire

ACCN: NM_014322

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_014322.2 , NP_055137.2
RefSeq Size:	2632 bp
RefSeq ORF:	1209 bp
Locus ID:	23596
UniProt ID:	Q9H1Y3
Cytogenetics:	1q43
Domains:	7tm_1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Gene Summary:	Opsins are members of the guanine nucleotide-binding protein (G protein)-coupled receptor superfamily. In addition to the visual opsins, mammals possess several photoreceptive non-visual opsins that are expressed in extraocular tissues. This gene, opsin 3, is strongly expressed in brain and testis and weakly expressed in liver, placenta, heart, lung, skeletal muscle, kidney, and pancreas. The gene may also be expressed in the retina. The protein has the canonical features of a photoreceptive opsin protein. [provided by RefSeq, Jul 2008]