

Product datasheet for SC303056

OPN1SW (NM_001708) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OPN1SW (NM_001708) Human Untagged Clone
Tag:	Tag Free
Symbol:	OPN1SW
Synonyms:	BCP; BOP; CBT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC303056 representing NM_001708. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTGTGTAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
 ATGAGAAAAATGTCGGAGGAAGAGTTTATCTGTTCAAAAATATCTCTTCAGTGGGGCCGTGGGATGGG
 CCTCAGTACCACATTGCCCTGTCTGGGCTTCTACCTCCAGGCAGCTTTCATGGGCACTGTCTTCCTT
 ATAGGGTTCCCACTCAATGCCATGGTGTCTGGTGGCCACACTGCGCTACAAAAAGTTGCGGCAGCCCTC
 AACTACATTCTGGTCAACGTGTCCTTCGGAGGCTTCTCCTCTGCATCTTCTGTCTTCCTGTCTTC
 GTCGCCAGCTGTAAACGGATACTTCGTCTTCGGTCGCCATGTTTGTGCTTTGGAGGGCTTCTGGGCACT
 GTAGCAGGTCTGGTTACAGGATGGTCACTGGCCTTCTGGCCTTTGAGCGCTACATTGTCATCTGTAAG
 CCCTTCGGCAACTTCCGCTTCAGCTCCAAGCATGCACTGACGGTGGTCCCTGGCTACCTGGACCATGGT
 ATTGGCGTCTCCATCCCACCTTCTTTGGCTGGAGCCGGTTCATCCCTGAGGGCCTGCAGTGTTCCTGT
 GGCCCTGACTGGTACACCGTGGGCACCAAATACCGCAGCGAGTCTATACGTGGTTCTCTTCATCTTC
 TGCTTCATTGTGCCTCTCTCCCTCATCTGCTTCTCCTACACTCAGCTGCTGAGGGCCCTGAAAGCTGT
 GCAGCTCAGCAGCAGGAGTCAGTACGACCCAGAAGGCTGAACGGGAGGTGAGCCGATGGTGGTTGTG
 ATGGTAGGATCCTTCTGTGTCTGCTACGTGCCCTACGCGGCCCTTCGCCATGTACATGGTCAACAACCGT
 AACCATGGGCTGGACTTACGGCTTGTCAACATTCCTTCATTCTTCTCCAAGAGTGCTTGCATCTACAAT
 CCCATCATCTACTGTTTCATGAATAAGCAGTTCCAAGCTTGATCATGAAGATGGTGTGTGGGAAGGCC
 ATGACAGATGAATCCGACACATGCAGCTCCAGAAAACAGAAGTTCTACTGTCTCGTCTACCCAAGTT
 GGCCCCAACTGA
 ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_001708


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Insert Size:	1047 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).
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:	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:	<u>NM_001708.2</u>
RefSeq Size:	1114 bp
RefSeq ORF:	1047 bp
Locus ID:	611
UniProt ID:	<u>P03999</u>
Cytogenetics:	7q32.1
Protein Families:	Druggable Genome, Transmembrane
MW:	39.1 kDa
Gene Summary:	This gene belongs to the G-protein coupled receptor 1 family, opsin subfamily. It encodes the blue cone pigment gene which is one of three types of cone photoreceptors responsible for normal color vision. Defects in this gene are the cause of tritan color blindness (tritanopia). Affected individuals lack blue and yellow sensory mechanisms while retaining those for red and green. Defective blue vision is characteristic. [provided by RefSeq, Jul 2008]