

Product datasheet for **SC315773**

OC90 (NM_001080399) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OC90 (NM_001080399) Human Untagged Clone
Tag:	Tag Free
Symbol:	OC90
Synonyms:	PLA2L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC315773 representing NM_001080399.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGATTGCGTTTCTCCTCACCAGTGTGCTGATGATCCCCATGCCGAGGCCATCCTCTGGACACTCCA
CATCTTCCACAGGAGCTGCCTCCAGGACTCCCAACAATATCAATATCACTTTCTCAGTGGGATGTTT
AAAAATGTGGAAGTGTGGCTGAAATTTTGTATTGCTGGGCCCCCACTTCACTGGCTGCAGGCTGTC
TTCACCAATTTCCCTGTGCTGATCCAGTTTGTCAATGGTATGAAGTGTGTGGCTGGTCTCTGCCCCGA
GACTTTGAAGACTATGGTTGCACCTGCAGGTTTGAGATGGAAGGTTGCCTGTGGATGAATCTGACAGC
TGCTGCTTCCAGCACCAGGTGCTATGAGGAGGCCGCTGAGATGGACTGTCTCAAGACCCCGCCAAA
CTTAGCACAGAGGTCAATTGTGTGAGCAAGAAGATCATATGTGAGTCCAAGGACAACCTGTGAGCACCTG
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GAAAATGATCCTGAGGAGACCACTGAAAAGCCTGTGACAGATTCACCTTCTGCACCTGGGAAGTGGG
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TCACCGGTGGTGTGTGTGGATCATACGCCCAAGTGTGGGGCCAAAGCCTGTGTGAGAAGTTGCTCTGT
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CTGGGCTCCAGCTCTGAGGAGGACAGCAGGAGGACCCTCCACAGGAGGACCTCGGCAGAGCCAAGAGG
TTTCTGCGGAAGTCACTGGGTCCCTTGGGGATCGGGCCTCTTCATGGAAGTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_001080399

Insert Size: 1434 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_001080399.2</u>
RefSeq Size:	1782 bp
RefSeq ORF:	1434 bp
Locus ID:	729330
UniProt ID:	<u>Q02509</u>
Cytogenetics:	8q24.22
Protein Families:	Secreted Protein
MW:	51.7 kDa
Gene Summary:	Major protein of the otoconia, a calcium carbonate structure in the saccule and utricle of the ear. Together with OTOL1, acts as a scaffold for otoconia biomineralization: sequesters calcium and forms interconnecting fibrils between otoconia that are incorporated into the calcium crystal structure. Together with OTOL1, modulates calcite crystal morphology and growth kinetics. It is unlikely that this protein has phospholipase A2 activity.[UniProtKB/Swiss-Prot Function]