

Product datasheet for **MG207235**

Oc90 (BC048716) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Oc90 (BC048716) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Oc90
Synonyms:	PLA2L, Ocn-95
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207235 representing BC048716
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGATTATGCTGCTCATGGTCGGTATGCTGATGGCCCCCTGTGTTGGGGCCCATGCTCTGGACACACCAA
 ATCCCCAGGAATTGCCTCCAGGACTGTCAAAAAATATAAATATCACTTTCTTCAATGGAGTGTAAAAA
 CGTGGAAGTGTGGCTGAAATTTTGAAGTGTGTAAGTGTGTAAGTGGCCTCTGCCCCGGGACTTTG
 AACTTCCCGCTGCTCCTCAGTTTGTAAACAGTATGAGGTGTGTAAGTGGCCTCTGCCCCGGGACTTTG
 AAGACTATGGTTGTGCCTGTAGTTTGAAGTGTGTAAGTGGCCTCTGCCCCGGGACTTTG
 CCAGCATCGCAGGTGCTATGAGGAAGCTGTTGAGATGGACTGTCTCAAGACCCTGCCAAGCTCAGTGCA
 GATGTGGATTGCACCAACAAACAGATCACATGTGAGTCCGAGGATCCCTGTGAGCGTCTACTGTGTACGT
 GTGACAAGGCTGCTGTGGAGTGCCTGGCTCAGTCTGGCATCAACTCCTCCTGAAGTCTCTGGATGCTTC
 CTTCTGCCTCCCTCAGACTCCAGAGACAACTAGTGGGAAGGCTGCAACTGTTGCCTAGAGAGTCTGTT
 CAAGATCTTCAAGACACACAAGCTTCTAGGACCACATCAAGTCCAGGATCTGCAGAGATTATGCCCTAG
 CCAAAGGTACAACCCACTCTGCTGGCATCAAACCACTGAGGTTGGGAGTCTCATCTGTTGACAATGGTTC
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 ACGGCCATGCTGCAGCTTGGAGAGATGCTCTTCTGTCTAACATCCCATTGCCAGAGGAATTTGAAACTT
 ACGGCTGCTACTGTGGAAGAGAAGGAAGAGGAGAGCAAGGGACACCCTGGATAGGTGCTGTCTGTCCCA
 TCACTGCTGTTTGGAGCAGATGAGACAAGTGGCTGCCTCCATGGAAGGCGTTCTCAGTCATCTGTGGTA
 TGTGAAGACCACATGGCCAAATGTGTGGGCAGAGCCTGTGTGAGAAGCTACTATGTGCCTGTGACCAGA
 TGGCAGCTGAGTGCATGGCCTCTGCCTTCTTTAATCAAAGCCTCAAGTACCAGACGGAGCCGAGTGTCA
 AGGCGAGCCTGTGTCTGTGAGGATGGCATGCTCCAGGGCACCTTGGCCTCTTCTGTGGACTCCAGTTCT
 GAGGAGAATAGTGAAGAGCTCCACCGCAGATGGAACGCCTAAGAAGATTCTGGAAAAGCCTCCTGGTC
 CTTGGGGGCCAGACCCCTCGGTGGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

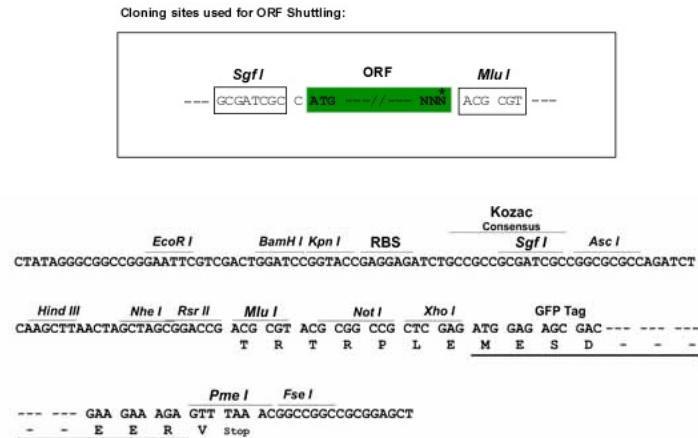
>MG207235 representing BC048716
 Red=Cloning site Green=Tags(s)

MIMLLMVGMLMAPCVGAHALDTPNPQELPPGLSKNINITFFNGVFKNVESVAEIFDCLGSHFTWLQAVFT
 NFPLLLQFVNSMRCVTGLCPDRDFEDYGCACRFEMEGMPVDESDICCFQHRRCYEEAVEMDCLQDPAKLSA
 DVDCTNKQITCESEDPCEPRLCTCDKAAVECLAQSGINSSNLFLDASFCLPQTPETTSKGAATLLPRESV
 QDLQDTQASRTTSSPGSAEIIALAKGTTTHSAGIKPLRLGVSSVDNGSQEAAGKAACDRLAFVHLGDGDSM
 TAMLQLGEMLFCLTSHCPEEFETYGCYCGREGREPRDTLDRCLSHHCLEQMRQVGLHGRRSQSSSV
 CEDHMAKCVQSLCEKLLCACDQMAAECMASAFFNQSLKSPDGAECQGEFVSCEDGMLQGTLASSVDSS
 EENSEEAPPQMERLRRFLEKPPGPLGARPLGGK

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

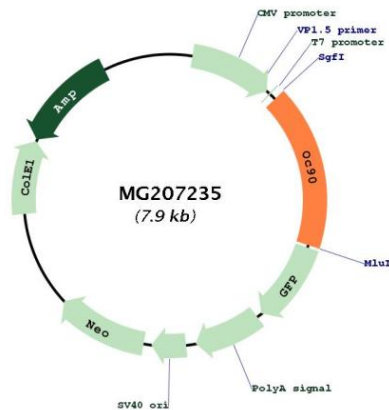
Cloning Scheme:


ACCN:	BC048716
ORF Size:	1359 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	BC048716 , AAH48716
RefSeq Size:	1701 bp
RefSeq ORF:	1361 bp
Locus ID:	18256

Cytogenetics: 15 29.16 cM

Gene Summary: Major protein of the otoconia, a calcium carbonate structure in the saccule and utricle of the ear (PubMed:17300776). 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 (PubMed:21655225, PubMed:24748133). Together with OTOL1, modulates calcite crystal morphology and growth kinetics (PubMed:24748133). It is unlikely that this protein has phospholipase A2 activity (PubMed:17300776).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG207235