

## Product datasheet for **MC206991**

### Mosmo (NM\_001164580) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mosmo (NM_001164580) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mosmo
Synonyms:	Atthog; MGC40669
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC206991 representing NM_001164580. Blue=ORF Red=Cloning site Green=Tag(s)

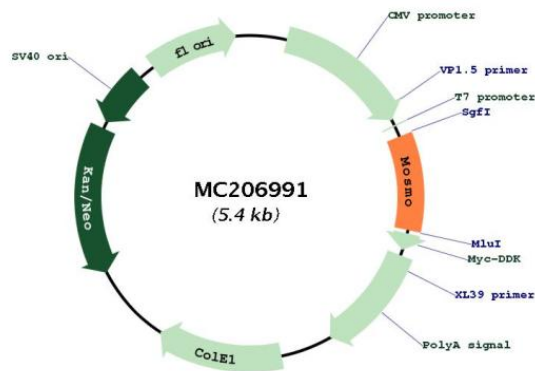
```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGATAAACTGACCATCATCTCAGGATGTCTCTTTCTGGCCGCGATATCTTCGCCATCGCCAGCATC
GCCAACCCGGACTGGATCAACACCGGGGAGTCGGCGGGAGCACTCACTGTGGCCTGGTGCAGTGT
CAGACAATCCATGGACGAGACCGGACCTGCATCCCTCCTCGGCTTCCCCAGAATGGGTACCACCTG
TTTTTATCATCATGGGAATCATTTCTTGACTGTCACATGTGGTTTGTGGTGGCTTCCACTGGCGA
AGAGAAGCTACAAAATATGCTCGATGGATAGCATTCACTGGAATGATCCTTTTCTGTATGGCTGCCCTA
ATATTTCCAATAGGATTTTACATCAATGAAGTCGGAGGTCAACCTTATAAGTTACCAACAACACAGTA
GTTGGGTATCATATGTACTTTTTGCTTATCGATTTTCTTACAATAGTAGGACTTCTGTTTGGCTGGC
AAAGTCTGTTTACCAGGCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCC
```

Restriction Sites: Sgfl-Mlul



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## Plasmid Map:



ACCN: NM\_001164580

Insert Size: 504 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: 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\\_001164580.1](#)

RefSeq Size: 4842 bp

RefSeq ORF: 504 bp

Locus ID: 233812

UniProt ID: [Q8C784](#)

Cytogenetics: 7 F2

MW: 18.2 kDa

**Gene Summary:** Acts as a negative regulator of hedgehog signaling probably by promoting internalization and subsequent degradation of smoothened protein (SMO) present in the ciliary membrane (PubMed:29290584). Plays a role in sonic hedgehog (SHH)-induced spinal neural progenitor cells differentiation (PubMed:29290584).[UniProtKB/Swiss-Prot Function]