

## Product datasheet for **MC206028**

### Olig2 (BC051967) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Olig2 (BC051967) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Olig2
Synonyms:	Oligo2, RK17, Olg-2, Bhlhb1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC206028 representing BC051967. Blue=ORF Red=Cloning site Green=Tag(s)

```

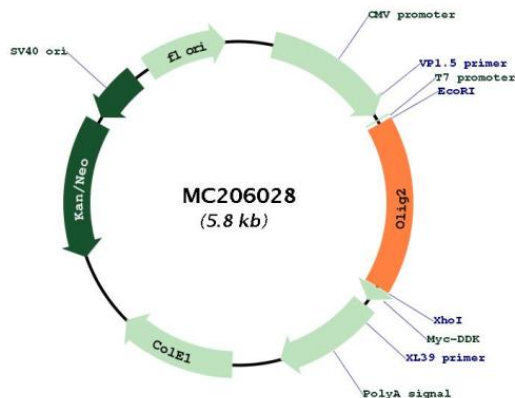
ATGGACTCGGACGCCAGCCTGGTGTCTAGTCGCCCATCGTCCCCAGAACCCGATGATCTTTTTCTGCC
GCCCGGAGCAAGGGGGGAAGCAGCAGCGGCTTCACAGGAGGGACTGTGTCTCGTCCACGCCGAGCGAC
TGCCCGCCAGAGCTGAGCTCCGAGCTACGAGGGGCCATGGGCGCGTCAGGCGCGCATCCCGGGGACAAA
CTGGGCGGCGGTGGCTTCAAGTCATCTTCTCCAGCACCTCCTCGTCCACGTCTCGGCGGCCACGTCT
TCCACCAAGAAAGACAAGAAGCAGATGACTGAGCCCGAGCTGCAGCAGCTGCGCCTGAAGATCAACAGC
CGCGAACGCAAGCGCATGCAGCACCTCAACATCGCCATGGACGGCCTGCGGGAGGTATGCCTTACGCG
CACGGGCCGTGCGCAAGCTCTCAAGATCGCCACGCTGCTGCTGGCGGAAACTACATCCTCATG
CTACCAACTCGCTGGAGGAGATGAAGCGACTGGTGAGCGAGATCTACGGGGTCAACCACGCCGGCTTC
CACCCATCGGCCTGTGGCGGGCTGGCACACTCGGCGCCTCTACCCACCGCCACGGCGCACCCCGCGGCC
GCCGCGCACGCCGCGCACCAACCCGGCCGTGCACCACCCCATCCTCCCTCCCGCAGCCGCCCGCCGCC
GCAGCCGCCCGCCCGCAGCGGTGTCCAGCGCCTCTTACCGGGTCCGGGCTGTCTCGGTGCGATCC
ATCCGGCTCCGCACGGCTGCTCAAGTCACCGTGGCAGCCGCAGCCGCCCTCTCGGAGGCGGGGT
GGAGGCAGCGGTGGCAGCGGTGGCTTCCAGCACTGGGGCGGCATGCCGTGCCCTGCAGCATGTGCCAG
GTGCCCGCCGCCACCAACACGTGTGCGCTATGGGCGCCGGCACCTTGCCGCGCTCACCTCCGACGCC
AAGTGA
CTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATTACAAGGATGACGAC
GATAAGGTTTAAACGGCCGCCGCGGTATAGCTGT

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Restriction Sites: EcoRI-XhoI



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**Plasmid Map:**


**ACCN:** BC051967

**Insert Size:** 972 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:** [BC051967.1](#)

**RefSeq Size:** 2462 bp

**RefSeq ORF:** 971 bp

**Locus ID:** 50913

**Cytogenetics:** 16 52.6 cM

**MW:** 32.4 kDa

**Gene Summary:**

Required for oligodendrocyte and motor neuron specification in the spinal cord, as well as for the development of somatic motor neurons in the hindbrain (PubMed:11955448, PubMed:12121626, PubMed:16908628). Functions together with ZNF488 to promote oligodendrocyte differentiation (PubMed:16908628). Cooperates with OLIG1 to establish the pMN domain of the embryonic neural tube (PubMed:11955448, PubMed:12121626). Antagonist of V2 interneuron and of NKX2-2-induced V3 interneuron development (PubMed:11955448, PubMed:12121626).[UniProtKB/Swiss-Prot Function]