

## Product datasheet for **MC226812**

### Otx2 (NM\_001286483) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Otx2 (NM\_001286483) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Otx2  
**Synonyms:** E130306E05Rik  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >MC226812 representing NM\_001286483  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGATGTCTTATCTAAAGCAACCGCCTTACGCAGTCAATGGGCTGAGTCTGACCACTTCGGGTATGGACT  
 TGCTGCATCCCTCCGTGGGCTACCCCGCCACCCCGGAAACAGCGAAGGGAGAGGACGACATTTACTAG  
 GGCACAGCTCGACGTTCTGGAAGCTCTGTTTGCCAAGACCCGGTACCCAGACATCTTCATGAGGGAAGAG  
 GTGGCACTGAAAATCAACTTGCCAGAATCCAGGGTGCAGGTATGGTTTAAGAATCGAAGAGCTAAGTGCC  
 GCCAACAGCAGCAGCAGCAGCAGAATGGAGGTGAGAACAAGTGAGGCCCTGCCAAGAAGAAGAGCTCTCC  
 AGCTCGGGAAGTGAGTTCAGAGAGTGGAACAAGTGCCAGTTCAGTCCCCCTCTAGTACCTCAGTCCCA  
 ACCATTGCCAGCAGCAGTGTCCAGTGTCTATCTGGAGCCAGCGTCCATCTCCCACTGTCTGACCCCT  
 TGTCCACTTCTCCTCTGCATGCAGAGGTCTATCCCATGACCTATACTCAGGCTTCAGGTTATAGTCA  
 AGGCTATGCTGGCTCAACTTCTACTTTGGGGCATGGACTGTGGATCTTATTTGACCCCTATGCATCAC  
 CAGTTCCTGGACCAGGGGCCACACTCAGTCCCATGGGTACCAATGCTGTTACCAGCCATCTCAATCAGT  
 CCCCAGTTCCTTTCCACCCAGGGATATGGAGCTTCAAGCTTGGGTTTAACTCAACCAGTATTGCTT  
 GGATTATAAGGACCAAAGTGCCTCTTGAAGCTTAACTCAATGCTGACTGCTTGGATTATAAGATCAG  
 ACGTCCTCATGGAAATTCAGGTTTTG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI  
**ACCN:** NM\_001286483  
**Insert Size:** 870 bp



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|-------------------------------|---|
| <b>OTI Disclaimer:</b>        | 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).  |
| <b>OTI Annotation:</b>        | Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>   |
| <b>RefSeq:</b>                | <u><a href="#">NM_001286483.1</a></u> , <u><a href="#">NP_001273412.1</a></u>   |
| <b>RefSeq Size:</b>           | 2157 bp   |
| <b>RefSeq ORF:</b>            | 870 bp  |
| <b>Locus ID:</b>              | 18424   |
| <b>Cytogenetics:</b>          | 14 25.36 cM   |
| <b>Gene Summary:</b>          | <p>This gene encodes a protein that belongs to the homeobox family of transcription factors. The encoded protein plays a role in the development and patterning of the head. This protein regulates development of the choroid plexuses in the brain affecting composition of cerebrospinal fluid in the developing brain and is thought to function in the development of sense organs in the embryo. In humans, mutations in this gene are associated with pituitary hormone deficiency. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Nov 2013]</p> <p>Transcript Variant: This variant (4) differs in the 5' UTR and uses an alternate in-frame splice site in the 5' coding region compared to variant 1. The encoded protein (isoform b) is shorter than isoform a. Variants 2, 3 and 4 encode the same protein.</p> |