

## Product datasheet for **MR229092**

### Otx2 (NM\_001286481) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Otx2 (NM\_001286481) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Otx2  
**Synonyms:** E130306E05Rik  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR229092 representing NM\_001286481  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGATGCTTATCTAAAGCAACCGCCTTACGCAGTCAATGGGCTGAGTCTGACCACTTCGGGTATGGACT  
TGCTGCATCCCTCCGTGGGCTACCCCGGCCCTGGGCTTCTTGTCTGCAGCCACCCCGGAAACAGCG  
AAGGGAGAGGACGACATTTACTAGGGCACAGCTCGACGTTCTGGAAGCTCTGTTTGCCAAGACCCGGTAC  
CCAGACATCTTCATGAGGGAAGAGGTGGCACTGAAAATCAACTTGCCAGAATCCAGGGTGCAGGTATGGT  
TTAAGAATCGAAGAGCTAAGTGCCGCAACAGCAGCAGCAGCAGAATGGAGGTGAGAACAAGTGAG  
GCCTGCCAAGAAGAAGAGCTCTCCAGCTCGGGAAGTGAGTTCAGAGAGTGGAAACAAGTGGCCAGTTCAGT  
CCCCCTCTAGTACCTCAGTCCCAACCATTGCCAGCAGCAGTGTCCAGTGTCTATCTGGAGCCAGCGT  
CCATCTCCCCACTGTCTGACCCCTTGCCACTTCTCCTCCTGCATGCAGAGTCCATCCCATGACCTA  
TACTCAGGCTTCAGGTTATAGTCAAGGCTATGCTGGCTCAACTTCTACTTTGGGGCATGGACTGTGGA  
TCTTATTTGACCCCTATGCATCACCAGTTCCTGGACCAGGGGCCACACTCAGTCCCATGGTACCAATG  
CTGTTACCAGCCATCTCAATCAGTCCCCAGCTTCTTTCCACCCAGGATATGGAGCTTCAAGCTTGGG  
TTTTAACTCAACCACTGATTGCTTGGATTATAAGGACCAAACTGCCTCTTGGAGCTTAACTTCAATGCT  
GACTGCTTGGATTATAAAGATCAGACGTCCTCATGGAAATTCAGGTTTTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229092 representing NM\_001286481  
 Red=Cloning site Green=Tags(s)

MMSYLKQPPYAVNGLSLTTSGMDLLHPSVGYPGPWASCPAATPRKQRRERTTFTRAQLDVLEALFAKTRY  
 PDIFMREEVALKINLPESRVQVWFKNRRAKCRQQQQQNGGQNKVRPAKKKSSPAREVSSSESGTSGQFS  
 PPSSTSVPTIASSAPVSIWSPASISPLSDPLSTSSSCMQRSYPMTYTQASGYSQGYAGSTSYFGGMDCG  
 SYLTPMHHQLPGPGATLSPMGTAVTSHLNQSPASLSTQGYGASSLGFNSTTDCLDYKDQTASWKLNFNA  
 DCLDYKDQTSWKFQVL

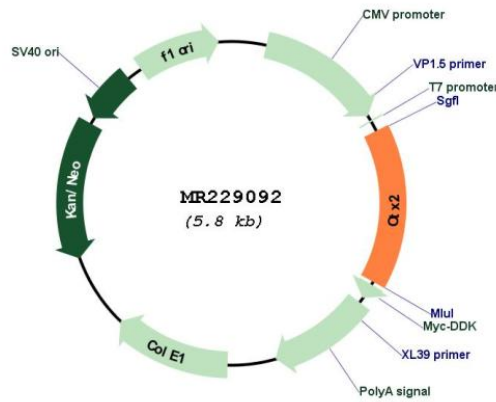
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001286481

ORF Size: 891 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001286481.1</a> , <a href="#">NP_001273410.1</a>
<b>RefSeq Size:</b>	2341 bp
<b>RefSeq ORF:</b>	894 bp
<b>Locus ID:</b>	18424
<b>Cytogenetics:</b>	14 25.36 cM
<b>MW:</b>	32.8 kDa
<b>Gene Summary:</b>	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]