

## Product datasheet for **MG205413**

### Otx1 (NM\_011023) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Otx1 (NM_011023) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Otx1
Synonyms:	A730044F23Rik; j; jv
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205413 representing NM_011023 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATGTCTTACCTCAAACAACCCCATACGGCATGAACGGGCTGGGCCTAGCTGGCCCTGCCATGGACC  
TCCTGCACCCCTCCGTGGGCTACCCTGCCACCCCGGGAAGCAGCGACGGGAGCGCACCACCTTCACGCG  
CTCACAGCTGGACGTGCTCGAGGCGCTGTTGCGAAAGACTCGCTACCCAGACATCTTCATGCGCGAGGAG  
GTGGCACTCAAGATCAACCTGCCAGAGTCCAGAGTCCAGGTTTGGTTCAAGAACC GCCCGCCAAGTGCC  
GCCAGCAGCAGCAGAGCGGAATGGAACGAAAACCCGGCCGGTCAAGAAGAAGTCGTCTCCAGTACGCGA  
GAGCTCGGGTTCAGAGAGCAGCGCCAGTTCACGCGCCCGCCGTATCTAGCTCTGCTTCTTCGTCTAGC  
TCAGCGTCCAGTGCCTCCGCCAACCCCGCGGCTGCTGCGGCCGCGGGCCTGGGTGGGAACCCAGTGGCAG  
CAGCGTCTCTCTGAGCACGCCTACTGCTTCGTCCATCTGGAGCCCGGCCTCCATCTCGCCGGGCTCAGC  
GCCGACATCCGTATCGGTGCCAGAGCCACTGGCCGCTCCGAGCAACGCCCTCGTGCATGCAGCGCTCGGTA  
GCCGAGGTGGGCCACTGCCGAGCCTCCTACCCTATGTCTATGGCCAGGGCGGAAGCTATGGTCAGG  
GATACCCCGCCCTCCTCTTCTTACTTTGGCGGTGTAGACTGCAGCTCCTACCTAGCGCCCATGCACCT  
TCATCACCACCCGACCCAGCTTAGCCCCATGGCACCCCTCCTCCATGGCTGGCCATCATCACCATCACCT  
CATGCGCACCACCCACTGAGCCAATCTTCAGGCCACCACCACCCATCACCACCACCACCACCAAG  
GTTATGGAGGCTCTGGGCTCGCCTTCAATTCTGCCGATTGCTTGGATTACAAGGAGCCCGCCCGCCGCGC  
TGCTTCTCTGCCTGAAACTCAATTTCAACTCTCCCGACTGTCTGGACTATAAGGACCAAGCCTCGTGG  
CGTTCCAGTCTTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205413 representing NM\_011023  
 Red=Cloning site Green=Tags(s)

MMSYLKQPPYGMNGLGLAGPAMDLLHPSVGYPATPRKQRRERTTFTRSQLDVLEALFAKTRYPDIFMREE  
 VALKINLPESRVQVWFKNRRRAKCRQQQSGNGTKTRPVKKKSSPVRESSGESSGQFTPPAVSSSASSSS  
 SASSASANPAAAAAAGLGNPVAASSLSTPTASSIWSIASISPGSAPTSVSVPEPLAAPSNASCMQRSV  
 AAGAATAAASYPMSYGGGSGYGGYYPAPSSSYFGGVDCSSYLAPMHSHHHPHQLSPMAPSSMAGHHHHHP  
 HAHHPLSQSSGHHHHHHHHHHHQYGGSLAFNSADCLDYKEPAAAAASSAWKLNFNNSPDCLDYKDQASW  
 RFQVL

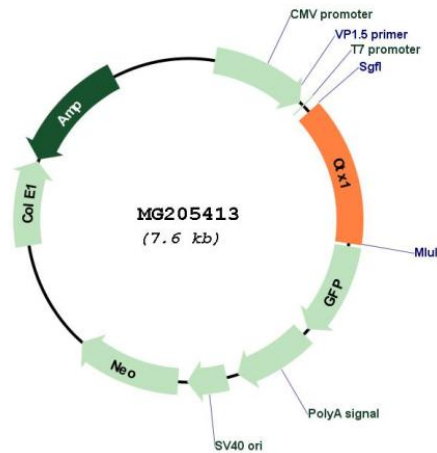
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_011023

<b>ORF Size:</b>	1065 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_011023.3</a> , <a href="#">NP_035153.1</a>
<b>RefSeq Size:</b>	2842 bp
<b>RefSeq ORF:</b>	1068 bp
<b>Locus ID:</b>	18423
<b>UniProt ID:</b>	<a href="#">P80205</a>
<b>Cytogenetics:</b>	11 14.1 cM
<b>Gene Summary:</b>	This gene encodes a member of the bicoid subfamily of the paired homeobox transcription factor family. The encoded protein is critical to the maintenance and regionalization of the forebrain and midbrain during development. It may also have important functions in sense organ development, pituitary function, and in the regulation of blood cell production. [provided by RefSeq, Jul 2008]