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Product datasheet for MR205413

Otx1 (NM_011023) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Otx1 (NM_011023) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Otx1
Synonyms:	A730044F23Rik; j; jv
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR205413 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATGTCTTACCTCAAACAACCCCCATACGGCATGAACGGGCTGGGCCTAGCTGGCCCTGCCATGGACC
TCCTGCACCCCTCCGTGGGCTACCCTGCCACCCCGCGGAAGCAGCGACGGGAGCGCACCACCTTCACGCG
CTCACAGCTGGACGTGCTCGAGGCGCTGTTCGCAAAGACTCGCTACCCAGACATCTTCATGCGCGAGGAG
GTGGCACTCAAGATCAACCTGCCAGAGTCCAGAGTCCAGGTTTGGTTCAAGAACCGCCGCGCCAAGTGCC
GCCAGCAGCAGCAGAGCGGGAATGGAACGAAAACCCGGCCGGTCAAGAAGAAGTCGTCTCCAGTACGCGA
GAGCTCGGGTTCAGAGAGCAGCGGCCAGTTCACGCCGCCCGCCGTATCTAGCTCTGCTTCTTCGTCTAGC
TCAGCGTCCAGTGCCTCCGCCAACCCCGCGGCTGCTGCGGCCGCGGGCCTGGGTGGGAACCCAGTGGCAG
CAGCGTCCTCTCTGAGCACGCCTACTGCTTCGTCCATCTGGAGCCCGGCCTCCATCTCGCCGGGCTCAGC
GCCGACATCCGTATCGGTGCCAGAGCCACTGGCCGCTCCGAGCAACGCCTCGTGCATGCAGCGCTCGGTA
GCCGCAGGTGCGGCCACTGCCGCAGCCTCCTACCCTATGTCCTATGGCCAGGGCGGAAGCTATGGTCAGG
GATACCCCGCGCCCTCCTCTTCTTACTTTGGCGGTGTAGACTGCAGCTCCTACCTAGCGCCCATGCACTC
TCATCACCACCCGCACCAGCTTAGCCCCATGGCACCCTCCTCCATGGCTGGCCATCATCACCATCACCCT
CATGCGCACCACCCACTGAGCCAATCTTCAGGCCACCACCACCACCATCACCACCACCACCACCACCAAG
GTTATGGAGGCTCTGGGCTCGCCTTCAATTCTGCCGATTGCTTGGATTACAAGGAGCCCGCCGCCGCCGC
TGCTTCCTCTGCCTGGAAACTCAATTTCAACTCTCCCGACTGTCTGGACTATAAGGACCAAGCCTCGTGG
CGGTTCCAGGTCTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

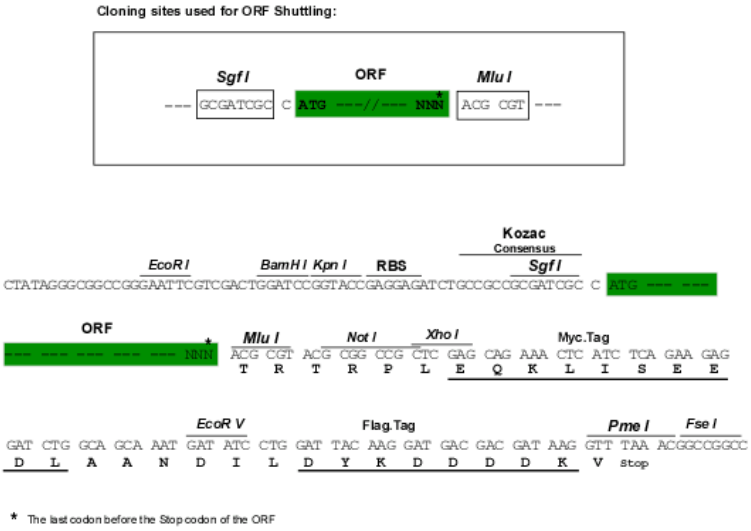
>MR205413 protein sequence
Red=Cloning site Green=Tags(s)

MMSYLKQPPYGMNGLGLAGPAMDLLHPSVGYPATPRKQRRERTTFTRSQLDVLEALFAKTRYPDIFMREE
VALKINLPESRVQVWFKNRRAKCRQQQQSGNGTKTRPVKKKSSPVRESSGSESSGQFTPPAVSSSASSSS
SASSASANPAAAAAAGLGGNPVAAASSLSTPTASSIWSPASISPGSAPTSVSVPEPLAAPSNASCMQRSV
AAGAATAAASYPMSYGQGGSYGQGYPAPSSSYFGGVDCSSYLAPMHSHHHPHQLSPMAPSSMAGHHHHHP
HAHHPLSQSSGHHHHHHHHHHHQGYGGSGLAFNSADCLDYKEPAAAAASSAWKLNFNSPDCLDYKDQASW
RFQVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_011023

ORF Size: 1068 bp

OTI Disclaimer: 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. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_011023.3, NP_035153.1

RefSeq Size: 2842 bp

RefSeq ORF: 1068 bp

Locus ID: 18423

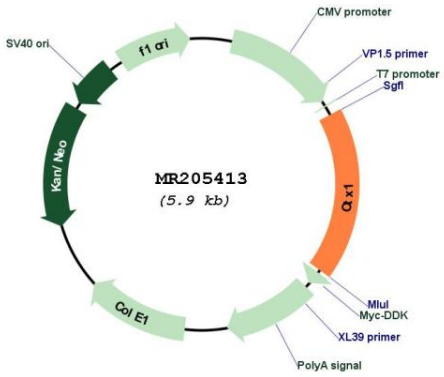
UniProt ID: P80205

Cytogenetics: 11 14.1 cM

MW: 37.5 kDa

Gene Summary: 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]

Product images:



Circular map for MR205413