

Product datasheet for **RR209686**

Lbx1 (NM_001047108) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Lbx1 (NM_001047108) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Lbx1
Synonyms: RGD1564197
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RR209686 representing NM_001047108
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTTCCAAGGAGGACGGCAAGGCGGCCGGGGGAGGAGCGGCGCGCAGCCCTCTGGACCACCTGC
CGCCGCTGCCAACTCCAACAAGCCGCTGACGCCGTTTCAGCATCGAGGACATCCTCAACAAGCCGTCCTG
GCGGAGAAGTTACTCGCTGTGTGGGGCGGCGCACCTGCTGGCGGCCGGACAAGCACGCGCCGGCGGC
TTGCCCTTGGCGGCCGCGCTCTGCTCTCGCAGACCTCGCCGCTGTGCGCCTTGGAGGAGCTCGCCAGCA
AGACCTTTAAGGGGCTGGAGGTCAGCGTCTGCAGGCAGCCGAAGCCGCGATGGGATGACCATCTTTGG
GCAGAGGCAGACGCCAAGAAACGGCGAAAATCACGCACGGCCTTACCACCATCAGATATACGAATTG
GAGAAAACGCTTTCTATACCAGAAGTACCTGTCCCTGCAGACCGCGACCAAAATTGCGCAGCAGCTGGGCC
TCACCAACGCACAGGTCATCACCTGGTTCCAGAATCGGCGCGCCAAGCTCAAGCGGGATCTGGAGGAGAT
GAAGGCCGACGTGGAGTCTGCCAAGAACTGGGCCCGAGCGGCAGATGGACATCGTGGCACTGGCGGAA
CTCGAGCAGAACTCGGAGGCTTCGGGCGCGCGCGCGCGCGCGCGGCGGTGGCTGCGGCAGAGCCAAGT
CTAGGCCGGGTTCTCCGGCGTCCCCCAGGCGCCCCGAGGCCCGAGGCCGCGGTGGGCCCTTGCAGCTCTC
TCCCGCTCTCCGCTCACGGACCAGCGGCCAGCAGCCAGGACTGCTCAGAGGATGAGGAAGACGAAGAG
ATCGACGTGGACGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RR209686 representing NM_001047108
Red=Cloning site Green=Tags(s)

MTSKEDGKAAPGEERRRSPLDHLPPPANSNKPLTPFSIEDILNKPSVRRSYSLCGAAHLLAAADKHAPGG
 LPLAGRALLSQTSPLEALEELASKTFKLEVSVLQAAEGRDGMTIFGQRQTPKRRKRSRTAFTNHQIYEL
 EKRFQYQKYLSPADRDQIAQQLGLTNAQVITWFQNRRAKLRDLEEMKADVESAKKLGPSGQMDIVALAE
 LEQNSEASGGGGGGGGCGGRAKSRPGSPALPPGAPQAPGGGQLQLSPASPLTDQRASSQDCSEDEEDEE
 IDVDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001047108

ORF Size: 855 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_001047108.1](#), [NP_001040573.1](#)

RefSeq Size: 1164 bp

RefSeq ORF: 858 bp

Locus ID: 499362

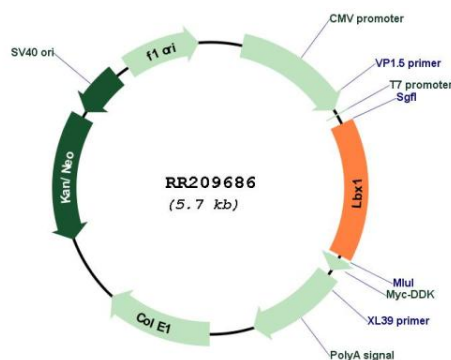
UniProt ID: [Q1XID0](#)

Cytogenetics: 1q54

MW: 30.4 kDa

Gene Summary: Transcription factor required for the development of GABAergic interneurons in the dorsal horn of the spinal cord and migration and further development of hypaxial muscle precursor cells for limb muscles, diaphragm and hypoglossal cord.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR209686