

Product datasheet for **RG218048**

LBX1 (NM_006562) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LBX1 (NM_006562) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LBX1
Synonyms:	homeobox; HPX-6; HPX6; LBX1H
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG218048 representing NM_006562 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGACTTCCAAGGAGGACGGCAAGGCGGCCGGGGGAGGAGCGGCGCGCAGCCCGCTGGACCACCTGC
CTCCGCTGCCAACTCCAACAAGCCACTGACGCCGTTTCAGCATCGAGGACATCCTCAACAAGCCGTCTGT
GCGGAGAAGTTACTCGCTGTGCGGGGCGCGCACCTGCTGGCCGCGCGGACAAGCACGCGCAGGGCGGC
TTGCCCTGGCGGCCGCGCTGCTCTCGAGACCTCGCCGCTGTGCGCGCTGGAGGAGCTCGCCAGCA
AGACGTTTAAGGGGCTGGAGGTCAGCGTTCTGCAGGCAGCCGAAGGCCGCGACGGTATGACCATCTTTGG
GCAGCGGACAGCCCTAAGAAGCGGCGAAAGTCGCGCACGGCCTTACCACACACAGATCTATGAATTG
GAAAAGCGCTTTCTATACCAGAAGTACCTGTCCCCCGCGATCGCGACCAATCGCGCAGCAGCTGGGCC
TCACCAACCGCGAAGTCATCACCTGTTCCAGAATCGGCGCGCTAAGCTCAAGCGGGACCTGGAGGAGAT
GAAGGCCGACGTAGAGTCCGCCAAGAACTGGGCCCGAGCGGCGAGATGGACATCGTGGCGCTGGCCGAA
CTCGAGCAGAAGTCCGAGGCCACAGCCGGCGGTGGCGGCGGCTGCGGCAGGGCCAAGTCGAGGCCCGGCT
CTCCGGTCTCCCCAGGCGCCCCGAAGGCCCGGGCGCTGGCGCCCTGCAGCTCTCGCTGCCTCTCC
GCTCACGACAGCCGGCCAGCAGCCAGGACTGCTCGGAGGACGAGGAAGACGAAGAGATCGACGTGGAC
GAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG218048 representing NM_006562
Red=Cloning site Green=Tags(s)

MTSKEDGKAAPGEERRRSPLDHLPPPANSNKPLTPFSIEDILNKPSVRRSYSLCGAAHLLAAADKHAQGG
 LPLAGRALLSQTSPLEALEELASKTFKGLEVSVLQAAEGRDGMTIFGQRQTPKRRRSRTAFTNHQIYEL
 EKRFLYQKYLSPADRDQIAQQLGLTNAQVITWFQNRRAKLRDLEEMKADVESAKKLGPSGQMDIVALAE
 LEQNSEATAGGGGGCGRAKSRPGSPVLPAGAPKAPGAGALQLSPASPLTDQPASSQDCSEDEEEDVIDVD

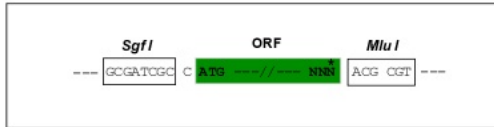
TRTRPLE - GFP Tag - V

Restriction Sites:

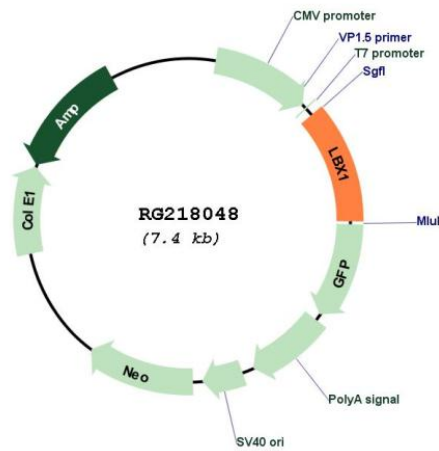
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_006562

ORF Size: 843 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:	<ol style="list-style-type: none">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_006562.4 , NP_006553.2
RefSeq Size:	1287 bp
RefSeq ORF:	846 bp
Locus ID:	10660
UniProt ID:	P52954
Cytogenetics:	10q24.32
Protein Families:	Transcription Factors
Gene Summary:	This gene and the orthologous mouse gene were found by their homology to the Drosophila lady bird early and late homeobox genes. In the mouse, this gene is a key regulator of muscle precursor cell migration and is required for the acquisition of dorsal identities of forelimb muscles. [provided by RefSeq, Jul 2008]