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Product datasheet for MR229707

Lhx3 (NM_010711) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lhx3 (NM_010711) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lhx3
Synonyms:	Lim3; mLim-3; mLIM3; P-LIM
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR229707 representing NM_010711 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCTGCTAGAAGCAGAACTCGATTGCCACCGAGAGAGGCCCGGTGCCCCTGGAGCTTCTGCCCTCTGTA CCTTCAGCAGGACTCCAGAGATCCCGATGTGTGCAGGCTGTGACCAGCACATCTTGGACCGTTTCATCCT TAAGGCTCTGGACCGACATTGGCACAGCAAGTGTCTCAAGTGCAGTGACTGCCACGTCCCTCTGGCTGAG CGCTGCTTCAGCCGCGGGGAGAGCGTCTACTGCAAAGACGACTTCTTTAAGCGCTTCGGGACCAAGTGCG CCGCATGCCAGCTGGGCATCCCGCCCACGCAGGTGGTGCGCCGCGCCCAGGACTTCGTGTACCACCTGCA TTGCTTCGCCTGCGTGGTCTGCAAGCGGCAGCTGGCCACGGGCGACGAGTTCTACCTCATGGAAGACAGC CGGCTGGTGTGCAAGGCGGACTACGAAACAGCCAAGCAGCGAGAAGCCGAGGCCACAGCCAAGCGGCCGC GCACCACCATCACCGCCAAGCAGCTGGAGACGCTGAAGAGCGCCTACAACACTTCGCCCAAGCCGGCGCG CCACGTGCGCGAGCAGCTCTCCTCCGAGACCGGCCTGGACATGCGAGTGGTGCAGGTGTGGTTCCAGAAT CGCCGGGCTAAGGAAAAGAGACTGAAGAAAGACGCTGGCCGGCAGCGCTGGGGACAGTATTTCCGCAATA TGAAGCGCTCCCGCGGCAGTTCCAAGTCCGACAAGGACAGCATCCAGGAGGGACAAGACAGCGACGCCGA AGTCTCCTTCACTGATGAGCCGTCCATGGCTGACATGGGGCCTGCTAATGGCCTGTACAGCAGCCTGGGA GAGCCTGCCCCTGCGTTGGGCCGGCCCGTAGGAGGCCTGGGCAGCTTTACCCTGGATCACGGAGGCTTGA CGGGTCCAGAGCAGTACCGAGAGCTACGCCCAGGCAGCCCCTATGGCATCCCCCCATCTCCTGCAGCCCC CCAGAGCCTTCCTGGCCCCCAGCCTCTCCTCTCCAGCCTGGTATACCCAGACACCAACTTGAGCCTTGTC CCTTCAGGGCCCCCAGGTGGACCCCCACCCATGAGGGTGCTGGCTGGAAATGGGCCCAGCTCCGACCTGT CCACAGAGAGCAGTTCTGGCTACCCAGACTTTCCTGCTAGCCCTGCTTCCTGGCTGGATGAAGTAGACCA TGCTCAGTTC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

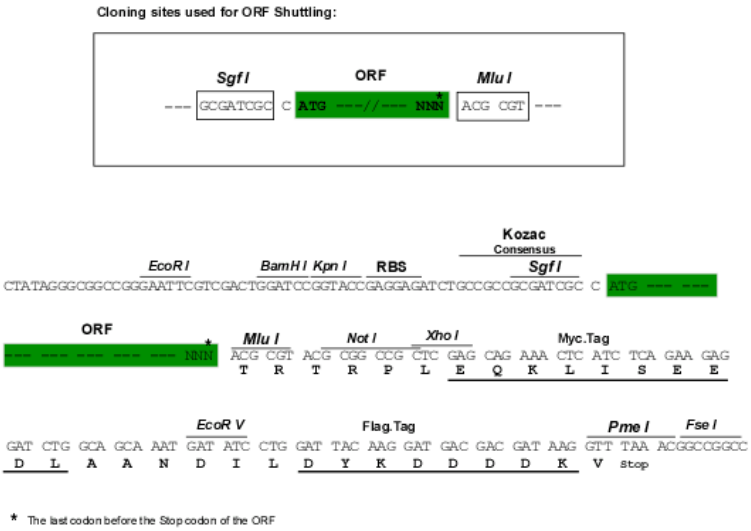
>MR229707 representing NM_010711
Red=Cloning site Green=Tags(s)

MLLEAELDCHRERPGAPGASALCTFSRTPEIPMCAGCDQHILDRFILKALDRHWHSKCLKCSDCHVPLAE
RCFSRGESVYCKDDFFKRFGTKCAACQLGIPPTQVVRRAQDFVYHLHCFACVVCKRQLATGDEFYLMEDS
RLVCKADYETAKQREAEATAKRPRTTITAKQLETLKSAYNTSPKPARHVREQLSSETGLDMRVVQVWFQN
RRAKEKRLKKDAGRQRWGQYFRNMKRSRGSSKSDKDSIQEGQDSDAEVSFTDEPSMADMGPANGLYSSLG
EPAPALGRPVGGLGSFTLDHGGLTGPEQYRELRPGSPYGIPPSPAAPQSLPGPQPLLSSLVYPDTNLSLV
PSGPPGGPPPMRVLAGNGPSSDLSTESSSGYPDFPASPASWLDEVDHAQF

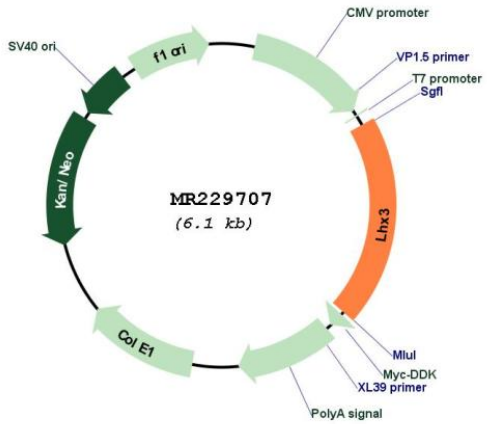
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_010711

ORF Size:	1200 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_010711.2, NP_034841.2
RefSeq Size:	2158 bp
RefSeq ORF:	1203 bp
Locus ID:	16871
UniProt ID:	P50481
Cytogenetics:	2 18.44 cM
MW:	44.5 kDa
Gene Summary:	Required for the establishment of the specialized cells of the pituitary gland and the nervous system (By similarity). Involved in the development of interneurons and motor neurons in cooperation with LDB1 and ISL1. Acts as a transcriptional activator. Binds to and activates the promoter of the alpha-glycoprotein gene, and synergistically enhances transcription from the prolactin promoter in cooperation with Pou1f1/Pit-1.[UniProtKB/Swiss-Prot Function]