

Product datasheet for SC317604

LHX6 (NM_199160) Human Untagged Clone

Product data:

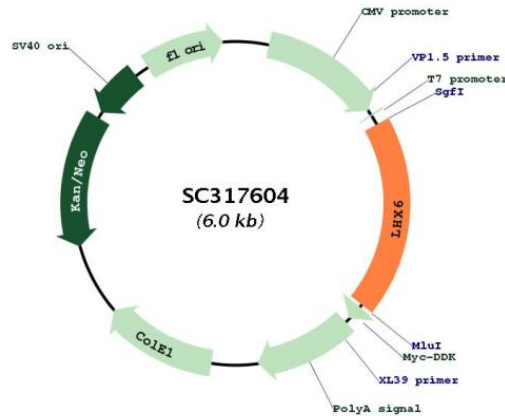
Product Type:	Expression Plasmids
Product Name:	LHX6 (NM_199160) Human Untagged Clone
Tag:	Tag Free
Symbol:	LHX6
Synonyms:	LHX6.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC317604 representing NM_199160. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGTACTGGAAGCATGAGAACGCCGCCCGCGCTTGCCCGAGGGCTGCCGGCTGCCGGCCGAGGGCGGC
CCC GCCACCGACCGAGGTGATGGCCAGCCAGGGTCCGGCTGCAAAGCGACCACCCGCTGTCTTGAAGGG
ACCGCGCCGCCGCCATGGCTCAGTCTGACGCCGAGGCCCTGGCAGGAGCTCTGGACAAGGACGAGGGT
CAGGCCTCCCATGTACGCCACGACGCCATCTGTCTGCTCACC GCCCTCTGCCGCTCCTCCGTGCCG
TCTGCAGGCAAGAACATCTGCTCCAGCTGCGGCCCTCGAGATCCTGGACCGATATCTGCTCAAGGTCAAC
AACCTCATCTGGCACGTGCGGTGCCTCGAGTGCTCCGTGTGTCGCACGTGCTGAGGCAGCAGAACAGC
TGCTACATCAAGAACAAGGAGATCTTCTGCAAGATGGACTACTTCAGCCGATTCGGGACCAAGTGTGCC
CGGTGCCGCCGACAGATCTACGCCACGACTGGGTGCGGAGAGCTCGCGGCAACGCCCTACCACCTGGCC
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GTGCTCTGCCGATCCACTACGACACCATGATTGAGAACCTCAAGAGGGCCGCCGAGAACGGGAACGGC
CTCACGTTGGAGGGGAGTGCCTCGGAACAGGACAGTCAACCAAGCCGGCCAAGCGCGCGGGACG
TCCTTCACCGGGAACAGCTGCAGGTTATGCAGGCGCAGTTCCGCGAGGACAACAACCCCGACGCTCAG
ACGCTGCAGAAGCTGGCGGACATGACGGCCCTCAGCCGGAGAGTCATCCAGGTGTGGTTTCAAACCTGC
CGGGCGCGTCATAAAAAGCACACGCCGCAACACCCAGTGCCGCCCTCGGGGGCGCCCGTCCCGCCTT
CCCTCCGCCCTGTCCGACGACATCCACTACACCCGTTT CAGCAGCCCGAGCGGGCGCGCATGGTCAAC
CTGCACGGCTACATTGAGAGTCATCCTTTTTT CAGTACTAACGCTGCCGGCACTTCCGCATCTGCCGCTG
GGC CCCCACAGCTGCCCTCAGCCGCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_199160

Insert Size: 1134 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_199160.3](#)

RefSeq Size: 3340 bp

RefSeq ORF: 1134 bp

Locus ID: 26468

UniProt ID: [Q9UPM6](#)

Cytogenetics: 9q33.2

Protein Families: Transcription Factors

MW: 41.3 kDa

Gene Summary: This gene encodes a member of a large protein family that contains the LIM domain, a unique cysteine-rich zinc-binding domain. The encoded protein has tandem LIM domains as well as a DNA-binding homeodomain. The protein functions as a transcription factor involved in embryogenesis and head development and is highly expressed in neural crest derived mesenchyme cells. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jan 2017]
Transcript Variant: This variant (2) lacks a segment in the coding region, which leads to a frameshift, compared to variant 1. The resulting isoform (2) contains a shorter and distinct C-terminus compared to isoform 1.