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Product datasheet for RC206025

ZHX1 (NM_007222) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZHX1 (NM_007222) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZHX1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC206025 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAAGCAGGCGAAAATCAACAACACCTTGCATGGTCCTTGCCAGTGAACAAGATCCAGACCTTGAGT
TGATATCAGATTTGGATGAAGGTCCTCCTGTGCTTACACCTGTAGAAAACACCAGAGCAGAGAGTATCTC
AAGTGATGAAGAGGTTCATGAATCTGTGGATTCAGACAATCAGCAAAATAAAAAAGTTGAAGGTGGATAT
GAATGTAAATATTGTACTTTTCAAACTCCAGATCTAAATATGTTTACTTTTCATGTGGATTCGGAACATC
CCAATGTAGTGCTAAATTCATCCTATGTTTGTGTCGAATGCAATTTTCTTACCAAAAGGTATGATGCACT
TTCTGAGCATAATCTGAAATATCACCCAGGAGAAGAGAATTTTAAGTTGACTATGGTGAAACGTAATAAC
CAGACAATCTTTGAACAAACAATAAATGATCTGACTTTTGATGGTAGTTTTGTTAAAGAGGAGAATGCAG
AGCAAGCAGAATCTACAGAAGTTTCTTCTTCGGGAATATCTATCAGTAAAACTCCTATCATGAAAATGAT
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CAAGTACTTCCATTGTAAACAGAATACATCCAAGTACTGCCAGCACGGTAGTGACACCAGCAGCAGTTCT
TCCTGGATTGGCACAGATGATAACTGCTGTATCTGCTCAGCAGAATTCTAATTTGATTCCCAAAGTCTTA
ATCCCTGTTAATAGCATTCCCACCTACAATGCTGCATTGGATAACAATCCCCTTTTACTTAACACCTACA
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GATCAAGATATGGTTTTCAGCCCAACGTTTAAAACATGGTGTTAGTTGGACTCCCGAGGAAGTAGAGGAG
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CCTTACTCAAGTGGCTGGAACAAACACCTTGCCAGTTACAGCACCTATAGCCTTGACAGTGGCAGGCGTT
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CAGCAGCAGTTCCAACTTCTCAAAGTGTCAAACATGAAACTGCATTGGTAAACCCTGATTCATTTGGCAT
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CATTATTATAGACTCCAGTGATGAAACCACGGAATCCCCAACTGTTGGTACTGCACAGCCTAAGCAATCC
TGGAATCCTTTTCCTGACTTTACTCCCCAAAAGTTTAAAGAGAAAACTGCAGAGCAGCTTCGTGTCCTTC
AGGCAAGTTTTCTCAACAGCTCTGTACTTACAGATGAAGAATTAAATAGGTTAAGGGCACAAACCAAACT
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TGAAACGGAAGCTGTCTAAATCAGATGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206025 protein sequence
Red=Cloning site Green=Tags(s)

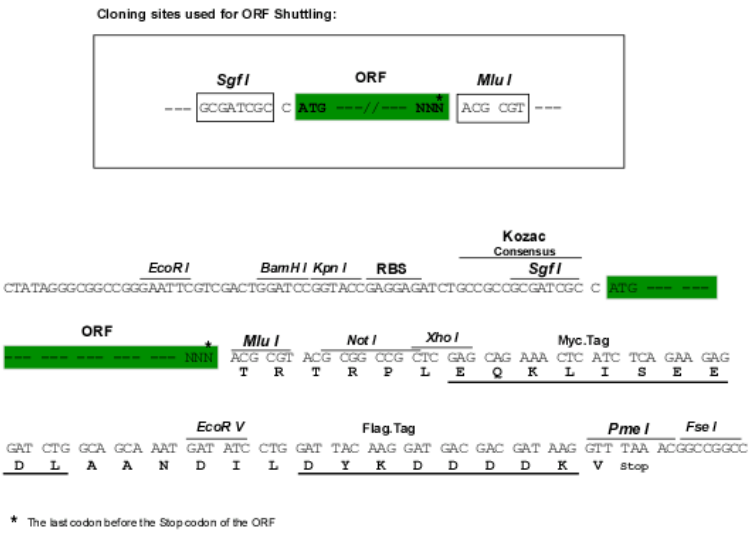
MASRRKSTTPCMVLASEQDPDLELISDLDEGPPVLTPVENTRAESISSDEEVHESVDSDNQQNKKVEGGY
ECKYCTFQTPDLNMFTFHVDSEHPNVVLNSSYVCVECNFLTKRYDALSEHNLKYHPGEENFKLTMVKRNN
QTIFEQTINDLTFDGSFVKEENAEQAESTEVSSSGISISKTPIMKMMKNKVENKRIAVHHNSVEDVPEEK
ENEIKPDREEIVENPSSSASESNTSTSIVNRIHPSTASTVVTPAAVLPGLAQMITAVSAQQNSNLIPKVL
IPVNSIPTYNAALDNNPLLLNTYNKFPYPTMSEITVLSAQAKYTEEQIKIWFSAQRLKHGVSWTPEEVEE
ARRKQFNGTVHTVPQTITVIPTHISTGSNGLPSILQTCQIVGQPGLVLTQVAGTNTLPVTAPIALTVAGV
PSQNNIQKSQVPAAQPTAETKPATAAVPTSQSVKHETALVNPDSFGIRAKKTKEQLAELKVSYLKNQFPH
DSEIIRLMKITGLTKGEIKKWFSDTRYNQRNSKSNQCLHLNNDSSTTIIIDSSDETTESPTVGTAQPKQS
WNPFPDFTPQKFKEKTAEQLRVLQASFLNSSVLTDEELNRLRAQTKLTRREIDAWFTEKKKSKALKEEKM
EIDESNAGSSKEEAGETSPADESGAPKSGSTGKICKKTPEQLHMLKSAFVRTQWPSPEEYDKLAKESGLA
RTDIVSWFGDTRYAWKNGNLKWYYYYQSANSSSMNGLSSLRKRGRGRPKGRGRGRPRGRPRGSKRINNWD
RGPSLIKFKTGTAILKDYYLKRKFLNEQDLDELVNKSHMGYEQVREWFAERQRRSELGIELFEENEEEDE
VIDDQEEDEEETDDSDTWEPPRHVKRKLSKSDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6694_h04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007222

ORF Size: 2619 bp

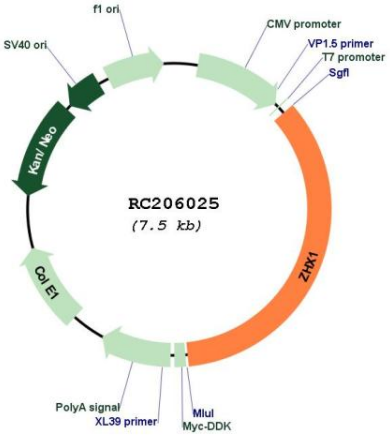
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

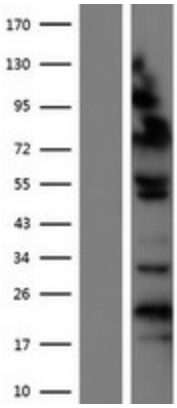
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_007222.2
RefSeq Size:	5139 bp
RefSeq ORF:	2622 bp
Locus ID:	11244
UniProt ID:	Q9UKY1
Cytogenetics:	8q24.13
Domains:	homeobox, zf-C2H2
Protein Families:	Transcription Factors
MW:	98.1 kDa
Gene Summary:	The members of the zinc fingers and homeoboxes gene family are nuclear homodimeric transcriptional repressors that interact with the A subunit of nuclear factor-Y (NF-YA) and contain two C2H2-type zinc fingers and five homeobox DNA-binding domains. This gene encodes member 1 of this gene family. In addition to forming homodimers, this protein heterodimerizes with members 2 and 3 of the zinc fingers and homeoboxes family. Alternative splicing results in multiple transcript variants. Read-through transcription also exists between this gene and the downstream chromosome 8 open reading frame 76 (C8orf76) gene. [provided by RefSeq, Feb 2011]

Product images:



Circular map for RC206025



Western blot validation of overexpression lysate (Cat# [LY422755]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC214398] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).