OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC210107

HESX1 (NM_003865) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HESX1 (NM_003865) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HESX1
Synonyms:	ANF; CPHD5; RPX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC210107 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTCCCAGCCTTCAGGAAGGCGCTCAGCTCGGGGAAAACAAACCCTCAACTTGCTCCTTTTCAATTG
AGAGAATCTTAGGACTGGACCAGAAGAAAGACTGTGTTCCATTAATGAAACCCCACAGGCCCTGGGCAGA
CACCTGCAGCTCATCAGGGAAAGATGGTAACTTATGTCTACATGTCCCAAATCCTCCCAGTGGGATTTCA
TTCCCTAGCGTGGTGGATCACCCAATGCCAGAAGAAAGAGCTTCGAAATATGAAAATTACTTTTCAGCCT
CAGAAAGACTGTCTTTGAAAAGAGAGTTGAGTTGGTATAGAGGCCGAAGACCAAGAACTGCTTTTACTCA
AAACCAGATTGAAGTGTTAGAAAATGTCTTTAGAGTAAACTGCTATCCTGGTATCGATATTAGAGAAGAC
TTAGCTCAAAAATTGAATCTAGAGGAAGACAGAATCCAGATTTGGTTTCAAAATCGGCGTGCAAAACTGA
AAAGGTCCCATAGAGAATCACAGTTTCTAATGGCGAAAAAAAATTTCAACACAAATCTGCTGGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC210107 protein sequence
Red=Cloning site Green=Tags(s)

MSPSLQEGAQLGENKPSTCSFSIERILGLDQKKDCVPLMKPHRPWADTCSSSGKDGNLCLHVPNPPSGIS
FPSVVDHPMPEERASKYENYFSASERLSLKRELSWYRGRRPRTAFTQNQIEVLENVFRVNCYPGIDIRED
LAQKLNLEEDRIQIWFQNRRAKLKRSHRESQFLMAKKNFNTNLLE

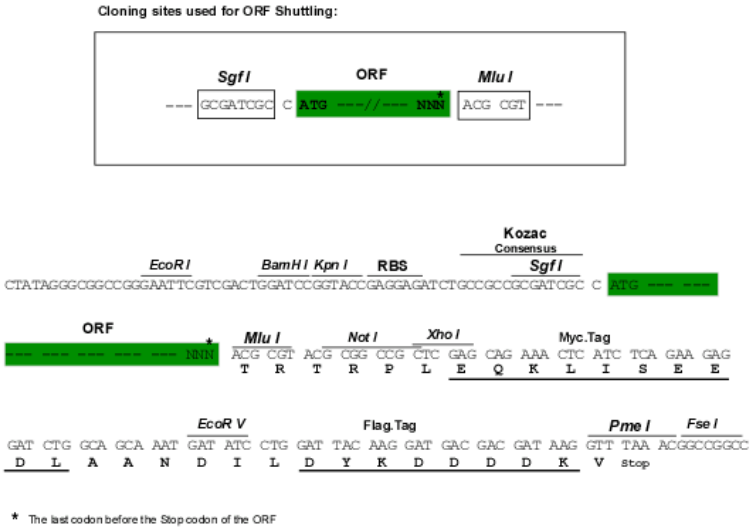
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6370_b05.zip

View online »

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003865

ORF Size: 555 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

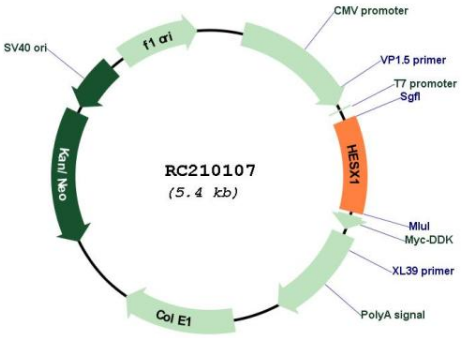
RefSeq: NM_003865.3

RefSeq Size: 1182 bp

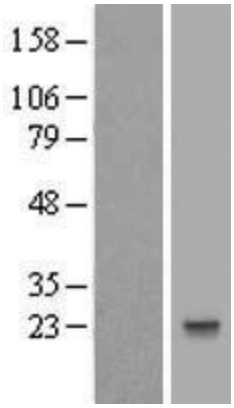
RefSeq ORF: 558 bp

Locus ID:	8820
UniProt ID:	Q9UBX0
Cytogenetics:	3p14.3
Protein Families:	Druggable Genome, Transcription Factors
MW:	21.4 kDa
Gene Summary:	This gene encodes a conserved homeobox protein that is a transcriptional repressor in the developing forebrain and pituitary gland. Mutations in this gene are associated with septooptic dysplasia, HESX1-related growth hormone deficiency, and combined pituitary hormone deficiency. [provided by RefSeq, Jul 2008]

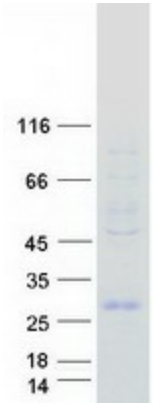
Product images:



Circular map for RC210107



Western blot validation of overexpression lysate (Cat# [LY418389]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210107 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HESX1 protein (Cat# [TP310107]). The protein was produced from HEK293T cells transfected with HESX1 cDNA clone (Cat# RC210107) using MegaTran 2.0 (Cat# [TT210002]).