

Product datasheet for **RG210107**

HESX1 (NM_003865) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HESX1 (NM_003865) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: HESX1
Synonyms: ANF; CPHD5; RPX
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG210107 representing NM_003865
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCTCCAGCCTTCAGGAAGCGCTCAGCTCGGGAAAAACAAACCCTCAACTTGCTCCTTTCAATTG
 AGAGAATCTTAGGACTGGACCAGAAGAAAGACTGTGTTCCATTAATGAAACCCACAGGCCCTGGGCAGA
 CACCTGCAGCTCATCAGGAAAGATGGTAACTTATGTCTACATGTCCAAATCCTCCAGTGGGATTCA
 TTCCCTAGCGTGGTGGATCACCAATGCCAGAAGAAAGAGCTTCGAAATATGAAAATTACTTTTCAGCCT
 CAGAAAGACTGTCTTTGAAAAGAGAGTTGAGTTGGTATAGAGGCCGAAGACCAAGAAGACTGCTTTTACTCA
 AAACCAGATTGAAGTGTAGAAAATGTCTTTAGAGTAAACTGCTATCCTGGTATCGATATTAGAGAAGAC
 TTAGCTCAAAAATTGAATCTAGAGGAAGACAGAATCCAGATTTGGTTTCAAAATCGGCGTGCAAAACTGA
 AAAGGTCCATAGAGAATCACAGTTTCTAATGGCGAAAAAAATTTCAACACAAATCTGCTGGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG210107 representing NM_003865
 Red=Cloning site Green=Tags(s)

MSPSLQEGAQLGENKPSTCSFSIERILGLDQKKDCVPLMKPHRPWADTCSSSGKDNLC LHVPNPPSGIS
 FPSVVDHPMPEERASKYENYFSASERLSLKRELSWYRGRPRPTAFTQNQIEVLENVFRVNCYPGIDIRE
 LAQKLNLEEDRIQIWFQNRRAKLRSHRESQFLMAKKNFNNTLLE

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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.

RefSeq: [NM_003865.3](#)

RefSeq Size: 892 bp

RefSeq ORF: 558 bp

Locus ID: 8820

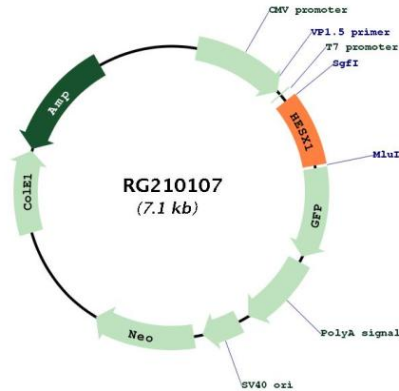
UniProt ID: [Q9UBX0](#)

Cytogenetics: 3p14.3

Protein Families: Druggable Genome, Transcription Factors

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 septo-optic dysplasia, HESX1-related growth hormone deficiency, and combined pituitary hormone deficiency. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG210107