

## Product datasheet for **MG222822**

### Hesx1 (NM\_010420) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Hesx1 (NM\_010420) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Hesx1  
**Synonyms:** HES-1; Rpx  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG222822 representing NM\_010420  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCTCCAGCCTTCGGGAAGGTGCTCAGCTCCGGGAAAGCAAGCCCGCCCTGCTCCTTCTCAATTG  
 AGAGCATTTTAGGACTGGACCAGAAAAAGATTGTACAACGTAGTAAGACCCACAGACCTGGACAGA  
 CACCTGCGGTGACTCAGAGAAAGGTGGCAACCCACCCCTACATGCCCCAGATCTTCCAGTGAGACTTCA  
 TTTCTTGTCCAGTGATCATCCAAGGCCAGAAGAAAGGGCTCCGAAATATGAAAATTTTTTCAGCCT  
 CCGAAACACGCTCTTTGAAAAGAGAATTGAGTTGGTACCGAGGACGAAGCCAAGAACCCTTTACCCA  
 GAACCAGTCAAGTATTGGAAAATGTCTTTAGAGTGAAGTGTACCCTGGCATTGACATCAGAGAGGAC  
 CTAGCTCAAAAGCTGAAGTATGAGGAAGACAGAATCCAGATTTGGTTCCAAAATCGCCGAGCAAAGATGA  
 AAAGGTCCCGTAGAGAATCACAGTTTCTAATGGCGAAAAAACCTTCAACCCAGATCTTCTGAAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG222822 representing NM\_010420  
 Red=Cloning site Green=Tags(s)

MSPSLREGAQLRESKPAPCSFSIESILGLDQKKDCTTSVRPHRPWTDTCGDSEKGGNPLHAPDLPSETS  
 FPCPVDHPRPEERAPKYENYFSASETRSLKRELSWYRGRPRPTAFTQNQVEVLENVFRVNCYPGIDIRE  
 LAQKLNLEEDRIQIWFQNRRAKMKRSRRESQFLMAKKPFNPDLLK

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

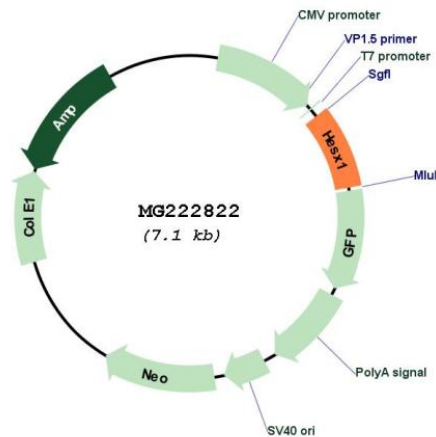


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## Cloning Scheme:



## Plasmid Map:



ACCN: NM\_010420

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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_010420.2</a></u> , <u><a href="#">NP_034550.2</a></u>
<b>RefSeq Size:</b>	1144 bp
<b>RefSeq ORF:</b>	558 bp
<b>Locus ID:</b>	15209
<b>UniProt ID:</b>	<u><a href="#">Q61658</a></u>
<b>Cytogenetics:</b>	14 A3
<b>Gene Summary:</b>	Required for the normal development of the forebrain, eyes and other anterior structures such as the olfactory placodes and pituitary gland. Possible transcriptional repressor. Binds to the palindromic PIII sequence, 5'-AGCTTGAGTCTAATTGAATTAAGTGTAC-3'. HESX1 and PROP1 bind as heterodimers on this palindromic site, and, in vitro, HESX1 can antagonize PROP1 activation.[UniProtKB/Swiss-Prot Function]