

## Product datasheet for **SC317077**

### HMX3 (NM\_001105574) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** HMX3 (NM\_001105574) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** HMX3  
**Synonyms:** NKX-5.1; Nkx5-1; NKX5.1  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL5](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_001105574 edited  
ATGCCGGAACCCGGCCGACGCTGCCGGCACCAGCCAGCGCACAGCCCCAACCCGCCGCC  
CCCCCCCACCCGCTCCCAAGGAGTCCCCGTTCTCCATCAAGAACCTGCTCAACGGAGAC  
CACCACCGGCCGCCCTAAGCCTCAGCCGCCCCACGGACGCTTTCGCGCCAGCCTCG  
GCTGCCGCGCCGCCGCGCTGCCGCTGCCGCGCGGCCAAGGGGGCCCTGGAGGGCGCC  
GCGGGGTTTCGCGCTCTCGCAGGTGGCGACCTGGCTTTCCCTCGCTTTGAGATCCCAGCG  
CAGAGGTTTGCCTGCCCGCGCACTACCTGGAGCGCTCCCAGCCTGGTGGTACCCTAC  
ACCCTGACCCCCGCGCGGCCACCTCCCAGCCTGAAGCCTCGGAGAAGGCCTTGCTG  
AGAGACTCCTCCCCGCCTCCGGCACAGACCGGACTCTCCGGAGCCACTGCTCAAGGCC  
GACCCCGATCACAAGGAGCTGGACTCCAAGAGCCCGACGAGATCATTCTGGAGGAGAGC  
GACTCCGAGGAAAGCAAAAAGGAAGGCGAAGCGCGCCAGGCGCGCCGGGGCGAGCGTA  
GGGGCGCGCGGCCACTCCGGGCGCAGAAGACTGGAAGAAGGGCGCTGAAAGTCCAGAG  
AAGAAGCCGCGTGCCGAAGAAGAAGACGCGCACAGTCTTCTCGCGCAGCCAGGTCTTC  
CAGCTCGAGTCCACCTTCGACATGAAGCGCTATCTGAGCAGCTCGGAGCGAGCCGGCCTG  
GCCGCGTCCCTGCACCTCACCGAGACGCAAGTCAAGATCTGGTTCCAGAACCAGCCGCAAC  
AAGTGAAGCGCGAGCTGGCGCGGAGCTGGAGGCGGCCAACCTGAGCCATGCCGCGCG  
CAGCGCATCGTGGGGTGCCTCCTCTACCACGAGAAGTCCGGCGCCGAGGGCGCGCGG  
GCTGCAGCCGCGGGGCCCGGTGCCAGTCAGCCAGCCGCTGCTACCTTCCCAGCCCC  
GTCTACTACTCGCACCCGGTGGTCTCTTCCGTGCCGCTGCTACGGCCGGTCTGA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_001105574  
**Insert Size:** 1100 bp



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<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_001105574.1.
<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>NM_001105574.1, NP_001099044.1</u>
<b>RefSeq Size:</b>	1074 bp
<b>RefSeq ORF:</b>	1074 bp
<b>Locus ID:</b>	340784
<b>UniProt ID:</b>	<u>A6NHT5</u>
<b>Cytogenetics:</b>	10q26.13
<b>Gene Summary:</b>	Transcription factor involved in specification of neuronal cell types and which is required for inner ear and hypothalamus development. Binds to the 5'-CAAGTG-3' core sequence. Controls semicircular canal formation in the inner ear. Also required for hypothalamic/pituitary axis of the CNS (By similarity).[UniProtKB/Swiss-Prot Function]