

## Product datasheet for **SC332670**

### HNF 4 alpha (HNF4A) (NM\_001258355) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HNF 4 alpha (HNF4A) (NM_001258355) Human Untagged Clone
Tag:	Tag Free
Symbol:	HNF 4 alpha
Synonyms:	FRTS4; HNF4; HNF4a7; HNF4a8; HNF4a9; HNF4alpha; MODY; MODY1; NR2A1; NR2A21; TCF; TCF-14; TCF14
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	>SC332670 representing NM_001258355. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGATTTTGTGCGCTGCGTCTCGCCAGATTGAGGCATCCCCTCCGACATCACTGGAGCATATCTGGA
GGGGTGGACAGTTCTCCACAGGGAGACAGTCCCCATCAGAAGGCACCAACCTCAACGCGCCCAACAGC
CTGGGTGTGAGCGCCCTGTGTGCCATCTGCGGGGACCGGGCCACGGGCAAACACTACGGTGCCTCGAGC
TGTGACGGCTGCAAGGGCTTCTCCGGAGGAGCGTGCGGAAGAACCACATGTACTCCTGCAGATTTAGC
CGGCAGTGCCTGGTGGACAAAGACAAGAGGAACCAGTCCCCTACTGCAGGCTCAAGAAATGCTCCGG
GCTGGCATGAAGAAGGAAGCCGTCAGAATGAGCGGGACCGGATCAGCACTCGAAGGTCAAGCTATGAG
GACAGCAGCTGCCCTCCATCAATGCGCTCCTGCAGGCGGAGTCTGTCCCGACAGATCACCTCCCC
GTCTCCGGGATCAACGGCGACATTCCGGGCAAGAAGATTGCCAGCATCGCAGATGTGTGTGAGTCCATG
AAGGAGCAGCTGCTGGTTCTCGTTGAGTGGCCAAGTACATCCCAGCTTTCTGCGAGTCCCCCTGGAC
GACCAGGTGGCCCTGCTCAGAGCCCATGCTGGCGAGCACCTGCTGCTCGGAGCCACCAAGAGATCCATG
GTGTTCAAGGACGTGCTGCTCCTAGGCAATGACTACATTGTCCCTCGGCACTGCCCGGAGCTGGCGGAG
ATGAGCCGGGTGTCCATACGCATCCTTGACGAGCTGGTGTGCCCTTCCAGGAGCTGCAGATCGATGAC
AATGAGTATGCCTACCTCAAAGCCATCATCTTCTTTGACCAGATGCCAAGGGGCTGAGCGATCCAGGG
AAGATCAAGCGGCTGCGTTCCAGGTGCAGGTGAGCTTGAGGACTACATCAACGACCGCCAGTATGAC
TCGCGTGGCCGCTTTGGAGAGCTGCTGCTGCTGCTGCCACCTTGACAGAGCATCACCTGGCAGATGATC
GAGCAGATCCAGTTCATCAAGCTCTTCCGCATGGCCAAGATTGACAACCTGTTGCAGGAGATGCTGCTG
GGAGGGTCCCCCAGCGATGCACCCCATGCCACCACCCCTGCACCCTCACCTGATGCAGGAACATATG
GGAACCAACGTATCGTTGCCAACACAATGCCCACTCACCTCAGCAACGGACAGATGTGTGAGTGGCCC
CGACCCAGGGGACAGGCAGCCACCCCTGAGACCCACAGCCCTCACCGCCAGGTGGCTCAGGGTCTGAG
CCCTATAAGTCTGCGGGGAGCCGTCGCCACAATCGTCAAGCCCTCTTGCCATCCCCAGCCGACC
ATCACCAAGCAGGAAGTTATCTAG

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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001258355
Insert Size:	1404 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>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>	<a href="#">NM_001258355.1</a>
<b>RefSeq Size:</b>	4828 bp
<b>RefSeq ORF:</b>	1404 bp
<b>Locus ID:</b>	3172
<b>UniProt ID:</b>	<a href="#">P41235</a>
<b>Cytogenetics:</b>	20q13.12
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Nuclear Hormone Receptor, Transcription Factors
<b>Protein Pathways:</b>	Maturity onset diabetes of the young
<b>MW:</b>	52 kDa
<b>Gene Summary:</b>	<p>The protein encoded by this gene is a nuclear transcription factor which binds DNA as a homodimer. The encoded protein controls the expression of several genes, including hepatocyte nuclear factor 1 alpha, a transcription factor which regulates the expression of several hepatic genes. This gene may play a role in development of the liver, kidney, and intestines. Mutations in this gene have been associated with monogenic autosomal dominant non-insulin-dependent diabetes mellitus type I. Alternative splicing of this gene results in multiple transcript variants encoding several different isoforms. [provided by RefSeq, Apr 2012]</p> <p>Transcript Variant: This variant (7) contains an additional coding exon in the 5' region that results in translation initiation from an alternate downstream start codon compared to variant 2. The resulting shorter isoform (7) has a distinct N-terminus compared to isoform 2.</p> <p>Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>