

Product datasheet for SC307054

HNF 4 alpha (HNF4A) (NM_175914) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HNF 4 alpha (HNF4A) (NM_175914) 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
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_175914 edited
 ATGGTCAGCGTGAACGCGCCCTCGGGGCTCCAGTGGAGAGTTCTTACGACACGTCCCCA
 TCAGAAGGCACCAACCTCAACGCGCCCAACAGCCTGGGTGTCAGCGCCCTGTGTGCCATC
 TGCGGGGACCGGGCCACGGGCAACACTACGGTGCCTCGAGCTGTGACGGCTGCAAGGGC
 TTCTTCCGGAGGAGCGTGCAGGAAGAACACATGTACTCCTGCAGATTTAGCCGGCAGTGC
 GTGGTGGACAAAGACAAGGAAGCAAGTGCAGTGCCTACTGCAAGGCTCAAGAAATGCTTCCGG
 GCTGGCATGAAGAAGGAAGCCGTCAGAAATGAGCGGGACCGGATCAGCACTCGAAGGTCA
 AGCTATGAGGACAGCAGCCTGCCCTCCATCAATGCGCTCCTGCAGGCGGAGGTCTGTCC
 CGACAGATCACCTCCCCGTCTCCGGGATCAACGGCGACATTCGGGCGAAGAAGATTGCC
 AGCATCGCAGATGTGTGAGTCCATG: AAGGAGCAGCTGCTGGTTCTCGTTGAGTGGGC
 CAAGTACATCCCAGCTTTCTGCGAGCTCCCCCTGGACGACAGGTGGCCCTGCTCAGAGC
 CCATGCTGGCGAGCACCTGCTGCTCGGAGCCACCAAGAGATCCATGGTGTCAAGGACGT
 GCTGCTCCTAGGCAATGACTACATTGTCCCTCGGCACTGCCCGGAGCTGGCGGAGATGAG
 CCGGGTGTCCATACGCATCCTTGACGAGCTGGTGTGCCCTTCCAGGAGCTGCAGATCGA
 TGACAATGAGTATGCCTACCTCAAAGCCATCATCTTCTTTGACCCAGATGCCAAGGGGCT
 GAGCGATCCAGGGAAGATCAAGCGGCTGCGTTCACAGGTGCAGGTGAGCTTGGAGGACTA
 CATCAACGACCGCCAGTATGACTCGCGTGGCCGCTTTGGAGAGCTGCTGTGCTGCTGCC
 CACCTTGACAGCATCACCTGGCAGATGATCGAGCAGATCCAGTTCATCAAGCTCTTCGG
 CATGGCCAAGATTGACAACCTGTTGCAGGAGATGCTGCTGGGAGGGTCCCCAGCGATGC
 ACCCATGCCCACCACCCCTGCACCCTCACCTGATGCAGGAACATATGGGAACCAACGT
 CATCGTTGCCAACACAATGCCCACTCACCTCAGCAACGGACAGATGTGTGAGTGGCCCCG
 ACCAGGGGACAGGACGCCACCCCTGAGACCCACAGCCCTCACCGCCAGGTGGCTCAGG
 GTCTGAGCCCTATAAGCTCCTGCGGGAGCCGTCGCCACAATCGTCAAGCCCTCTCTGC
 CATCCCCAGCCGACCATCACCAAGCAGGAAGTTATCTAG

Restriction Sites: Please inquire



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ACCN:	NM_175914
Insert Size:	1360 bp
OTI Disclaimer:	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).
OTI Annotation:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_175914.3.
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:	<ol style="list-style-type: none">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:	<u>NM_175914.3</u> , <u>NP_787110.2</u>
RefSeq Size:	1369 bp
RefSeq ORF:	1359 bp
Locus ID:	3172
UniProt ID:	<u>P41235</u>
Cytogenetics:	20q13.12
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Nuclear Hormone Receptor, Transcription Factors
Protein Pathways:	Maturity onset diabetes of the young

Gene Summary:

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]

Transcript Variant: This variant (5) contains an alternate 5' terminal exon, which results in translation initiation from an alternate upstream start codon compared to variant 2. The resulting shorter isoform (5, also known as HNF4alpha8) has a distinct N-terminus compared to isoform 2. 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.