

Product datasheet for **SC122562**

HNF1 beta (HNF1B) (NM_000458) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HNF1 beta (HNF1B) (NM_000458) Human Untagged Clone
Tag:	Tag Free
Symbol:	HNF1 beta
Synonyms:	ADTKD3; FJHN; HNF-1-beta; HNF-1B; HNF1beta; HNF2; HPC11; LF-B3; LFB3; MODY5; RCAD; T2D; TCF-2; TCF2; VHNF1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_000458 edited
 ATCATGGCAAGTTAGAAGTTTTCTGACTCCTTTTCGGAGGAGCCTCCGGGACCCCGGGGAG
 TAACAGGTGTCTGGAGGCTGAAGGGTGGAGGGTTCTGGATTTGGGGTTTGCTTGTGAA
 ACTCCCTCCACCCTCTCTCTCGCACCCACCCACCCCTCACCCCTTCTTTTTCCGTC
 CTTGAAAATGGTGTCCAAGCTCACGTCGCTCCAGCAAGAACTCTGAGCGCCCTGCTGA
 GCTCCGGGGTACCAAGGAGGTGCTGGTTCAGGCCTTGGAGGAGTTGCTGCCATCCCCGA
 ACTTCGGGGTGAAGCTGGAGACGCTGCCCTGTCCCTGGCAGCGGGGCCGAGCCCCGACA
 CCAAGCCGGTCTCCATACTCTACCAACGGCCACGCCAAGGGCCGCTTGTCCGGCGACG
 AGGGCTCCGAGGACGGCGACGACTATGACACACCTCCCATCCTCAAGGAGCTGCAGGCGC
 TCAACACCGAGGAGGGCGGAGCAGCGGGCGGAGGTGGACCGGATGCTCAGTGAGGACC
 CTTGGAGGGTGTAAAATGATCAAGGGTTACATGCAGCAACACAACATCCCCAGAGGG
 AGGTGGTGCATGTACCCGGCTGAACAGTCGCACCTCTCCAGCATCTCAACAAGGGCA
 CCCCTATGAAGACCCAGAAGCGTCCGCTCTGTACACCTGGTACGTCAGAAAGCAACGAG
 AGATCCTCCGACAATTCAACCAGACAGTCCAGAGTTCTGGAAATATGACAGACAAAAGCA
 GTCAGGATCAGCTGCTGTTTCTTTCCAGAGTTCAGTCAACAGAGCCATGGGCCTGGGC
 AGTCCGATGATGCTGCTGAGCCACCAACAAGAAGATGCGCCGCAACCGGTTCAAAT
 GGGGGCCCGCTCCAGCAAATCTGTACCAGGCTACGATCGGCAAAAAGAACCCAGCA
 AGGAAGAGAGAGAGGCCTTAGTGGAGGAATGCAACAGGGCAGAATGTTTGCAGCGAGGG
 TGTCCCTCCAAAGCCACGGCTGGGCTCCTTGGTCACTGAGGTCGCTGTCTACA
 ACTGGTTTGCAAACCGCAGGAAGGAGGAGGCAATCCGGCAAAAAGCTGGCCATGGACGCT
 ATAGTCCAACAGACTCACAGCCTGAACCCTCTGCTCTCCACGGCTCCCCACCACC
 AGCCAGCTCCTCTCCTCAAACAAGCTGTCAGGAGTGCCTACAGCCAGCAGGGAAACA
 ATGAGATCACTTCTCCTCAAACAAGCTGTCAGGAGTGCCTACAGCCAGCAGGGAAACA
 AGTCCGGTTTTACAGCAAGTCTCCAGCCAGCCTGGACCCAGGCCACAATCTCCTCAC
 CTGATGGTAAAATGATCTCAGTCTCAGGAGGAGTTTGGCCCCAGTCAGCACCTTGACGA
 ATATCCACAGCCTCTCCACCATAATCCCAGCAATCTCAAAACCTCATCATGACACCC
 TCTCTGGAGTCATGGCAATTGCACAAAGCCTCAACACCTCCCAAGCACAGAGTGTCCCTG
 TCATCAACAGTGTGGCCGGCAGCCTGGCAGCCCTGCAGCCGTCAGTTCTCCAGCAGC
 TGCACAGCCCTCACCAGCAGCCCTCATGCAGCAGAGCCAGGCAGCCACATGGCCAGC
 AGCCCTTCATGGCAGCTGTGACTCAGTGCAGAACTCACACATGTACGCACACAAGCAGG
 AACCCCCCAGTATCCACACCTCCCGGTTTCCATCTGCAATGGTGGTCACAGATACCA
 GCAGCATCAGTACACTACCAACATGTCTTCAAGTAAACAGTGTCTCTACAAGCCTGGT
 GATGCCACACACCACTTACTTCGTGCGCAACAACAAGGACCCTGTTTTCCACACCATCA
 CCCTCTGGGCAGCTGTATGGAAAAGCCAGTGACCTGACCAGCACCTGCGAGAGGTCCC
 TGCTTACCTGACGGAGCTCTGCTGGCACCTCAGACAATCCACTCTCAGGAGGGCGAGCC
 CGAAGCCAGTTTCCCTTCTATGCAATTTGCCACAATGCCTCTCCACGATGTCAAGGA
 CTCCTGTCTGTCTGGAGGTGGGAGACAAGGAACCTCCGAAGAGGAAGCAAGAAAGCCGT
 ACTGTCTATGTTGTGATCCTTTCATCGAACAACCTGATGCGAAAACCTTGAATCTGTTACTG
 AAATGAGGAGAGAAGGACATGTGCTATTGAACTGAGCCAAACACTGTAATATCCACA
 GACTCCCTCCCTGCCCCATCCCAAATGATCTTGAGATTTCTTTTAAAGAAGTAAATTT
 GTCCAATGGCTGTAAACTATAAACTACTGTAATTAAGTGAATTTCCCTCTGTGCTCTC
 TCCCTCTGCCCTGTATATAATACTAAAGTGTCTATTAGTTTTCTTTGTAAGGTGAGAG
 TCAAAATTTCAAAGTGATCTGTCCCTCTCCCTCATGGAGAAACATCCTAAGTGGGAA
 GTGAAGCCCTTGTCTCTCCCGGGCCTGGACACTTATGGGGACAGCATACCTTGGAC
 TGACTACCAGTAACTCCAGTCTCTGACATTAAGACACACCTCTGGATCCCTGGAGGG
 CTGAATGTAGTGTGTCAGAGTAACATGCCAGCTTCTGTGGGCCAGGAGCTCAGCCGTGC
 ACTCCCTAAGAAACCCAGGGCAGGAAACTGGCTGTTTATAGCAGAAGAAAAAGTTGC
 AGTCTCAGAAAGCCTTCCATTAACAATTTATTTTATCACTAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_000458 unedited GCGGGCCGCGNAATTCCCGGGGTATCGTCGACCCACGCGTCCGATCATGGCAAGTTAGAA GTTTTCTGACTCCTTTCCGAGGAGCCTCCGGGACCCCGGGGAGTAACAGGTGTCTGGAGG CTGAAGGGTGGAGGGTTCTGGATTTGGGGTTTGCTTGTGAAACTCCCCTCCACCCTCC TCTCTCGACCCACCCACCCCTCACCCCTTCTTTTCCGTCTTGAAAATGGTGTCC AAGCTCACGTGCTCCAGCAAGAACTCTGAGCGCCCTGCTGAGCTCCGGGGTCAACCAAG GAGGTGCTGGTTCAAGCCTTGGAGGAGTTGCTGCCATCCCCGAACCTCGGGGTGAAGCTG GAGACGCTGCCCTGTCCCTGGCAGCGGGCCGAGCCCGACACCAAGCCGGTCTTCCAT ACTTCAACCAACGGCCACGCCAAGGGCCGCTTGTCCGGCGACGAGGGCTCCGAGGACGGC GACGACTATGACACACCTCCCATCCTCAAGGAGCTGCAGGCGCTCAACACCGAGGAGGGC GCGGATCATCGGGCGGAGGTGGACCGGATGCTCAGTGAGGACCCTTGGAGGGCTGCTAAA ATGATCAAGGGTTACATGCAGGCACACAACATCCCCAGAGGGAGGTGGTTCGATGTACC GGCCTGAACAGTCGCACCTCTCCAGCATCTCAACCAGGGCACCCCTATGAAGACCCAT GATCGTCCGCTCTGTACACCTGGTACGTCAGAAAGCAACGAGAGATCCTCCGACAATCA ACCAGACAGTCCAGAGTTCTGAAAATATGACAGACANAAGCAGTCAGGATCAGCTGCTGT TTCTCTTCCGAGTTCAGTCACAGAGC
Restriction Sites:	Please inquire
ACCN:	NM_000458
Insert Size:	2818 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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	NM_000458.1 , NP_000449.1
RefSeq Size:	2816 bp
RefSeq ORF:	1674 bp
Locus ID:	6928
UniProt ID:	P35680
Cytogenetics:	17q12

Protein Families:	Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Transcription Factors
Protein Pathways:	Maturity onset diabetes of the young
Gene Summary:	<p>This gene encodes a member of the homeodomain-containing superfamily of transcription factors. The protein binds to DNA as either a homodimer, or a heterodimer with the related protein hepatocyte nuclear factor 1-alpha. The gene has been shown to function in nephron development, and regulates development of the embryonic pancreas. Mutations in this gene result in renal cysts and diabetes syndrome and noninsulin-dependent diabetes mellitus, and expression of this gene is altered in some types of cancer. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Sep 2009]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>