

Product datasheet for **RG228433**

HNF1 beta (HNF1B) (NM_001165923) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HNF1 beta (HNF1B) (NM_001165923) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HNF1B
Synonyms:	ADTKD3; FJHN; HNF-1-beta; HNF-1B; HNF1beta; HNF2; HPC11; LF-B3; LFB3; MODY5; RCAD; T2D; TCF-2; TCF2; VHNF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG228433 representing NM_001165923
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGTGTCCAAGCTCACGTCGCTCCAGCAAGAAGCTCTGAGCGCCCTGCTGAGCTCCGGGTACCAAGG
 AGGTGCTGGTTCAGGCCTTGGAGGAGTTGCTGCCATCCCCGAAGTTCGGGGTGAAGCTGGAGACGCTGCC
 CCTGTCCCTGGCAGCGGGCCGAGCCCACCAAGCCGGTCTTCCATACTCTACCAACGCGCCACGCC
 AAGGGCCGCTTGTCCGGCAGCAGGGCTCCGAGGACGGCAGCAGCTATGACACACCTCCCATCTCAAGG
 AGCTGCAGGCGCTCAACACCGAGGAGGCGGAGCAGCGGGCGGAGGTGGACCGGATGCTCAGTGAGGA
 CCCTTGGAGGGCTGCTAAAATGATCAAGGGTTACATGCAGCAACACAACATCCCCAGAGGGAGGTGGTC
 GATGTCACCGCCTGAACCAGTCGCACCTCTCCAGCATCTCAACAAGGGCACCCCTATGAAGACCCAGA
 AGCGTGCCGCTCTGTACACCTGGTACGTCAGAAAGCAACGAGAGATCCTCCGACAGTTCAACAGAG
 CCATGGGCTGGGCAGTCCGATGATGCCCTGCTCTGAGCCACCAACAAGAAGATGCGCCCAACCGGTTT
 AAATGGGGGCCCCGCTCCAGCAAATCTTGTACAGGCCTACGATCGGCAAAAAGAACCCAGCAAGGAAG
 AGAGAGAGGCCTTAGTGGAGGAATGCAACAGGGCAGAATGTTTGCAGCGAGGGGTGTCCCCCTCCAAAGC
 CCACGGCTGGGCTCAAACCTGGTCACTGAGGTCGGTGTCTACAACCTGGTTTGCAAACCGCAGGAAGGAG
 GAGGCAATCCGGCAAAAGCTGGCCATGGACGCCTATAGCTCCAACAGACTCACAGCCTGAACCTCTGC
 TCTCCACGGCTCCCCCACCACAGCCAGCTCCTCTCTCCAAACAAGCTGTGAGGAGTGCCTACAG
 CCAGCAGGAAACAATGAGATCACTTCTCCTCAACAATCAGTCACCATGGCAACAGCGCCATGGTGACC
 AGCCATCGGTTTTACAGCAAGTCTCCCCAGCCAGCCTGGACCCAGGCCACAATCTCTCTCACCTGATG
 GTAAAATGATCTCAGTCTCAGGAGGAGGTTTTGCCCCAGTCAGCACCTTGACGAATATCCAGGCCTCTC
 CCACCATAATCCCAGCAATCTCAAACCTCATCATGACACCCCTCTCTGGAGTCATGGCAATTGCACAA
 AGCCTCAACACCTCCCAAGCACAGAGTGTCCCTGTCATCAACAGTGTGGCCGGCAGCCTGGCAGCCCTGC
 AGCCCGTCCAGTTCTCCAGCAGCTGCACAGCCCTCACCAGCAGCCCTCATGCAGCAGAGCCAGGCGAG
 CCACATGGCCAGCAGCCCTTATGGCAGCTGTGACTCAGCTGCAGAACTCACACATGTACGCACACAAG
 CAGGAACCCCCCAGTATCCACACCTCCCGTTTTCCATCTGCAATGGTGGTACAGATACCAGCAGCA
 TCAGTACACTACCAACATGTCTCAAGTAAACAGTGTCTCTACAAGCCTGG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG228433 representing NM_001165923
 Red=Cloning site Green=Tags(s)

MVSKLTSLQQEELLSALLSSGVTKEVLVQALEELLPSPNFGVKLETLPSPGSAEPDTKPVFHTLTNGHA
 KGRLSGDEGSDDYDTPPILKELQALNTEAAEQRAEVDRLSEDPWRAAKMIKGYMQHNIPQREV
 DVTGLNQSHLSQHLNKGTPMKTQKRAALYTWYVRKQREILRQFSQQSHGPGQSDDACSEPTNKKMRRNRF
 KWGPASQQILYQAYDRQKNPSKEEREALVEECNRAECLQRGVSPSKAHGLGSLNLTVEVRVYNWFANRRKE
 EAFRQKLAMDAYSNNQTHSLNPLLSHGSPHHQPSSPPNKLSGVRYQQGNNEITSSSTISHHGNSAMVT
 SQSVLQQVSPASLDPGHLLSPDGKMI SVSGGGLPPVSTLTNIHSLSHHNPQQSQNLIMTPLSGVMAIAQ
 SLNTSQAQSVPVINSVAGSLAALQPVQFSQQLHSPHQPLMQQSPGSHMAQQPFMAAVTQLQNSHMYAHK
 QEPPQYSHTSRFPMSAMVVTDTSSISTLTNMSSSKQCPLQAW

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

ORF Size:	1593 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.
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_001165923.4
RefSeq Size:	2773 bp
RefSeq ORF:	1596 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:	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]