

Product datasheet for **SC327068**

HNF1 beta (HNF1B) (NM_001165923) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HNF1 beta (HNF1B) (NM_001165923) Human Untagged Clone
Tag:	Tag Free
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-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC327068 representing NM_001165923.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

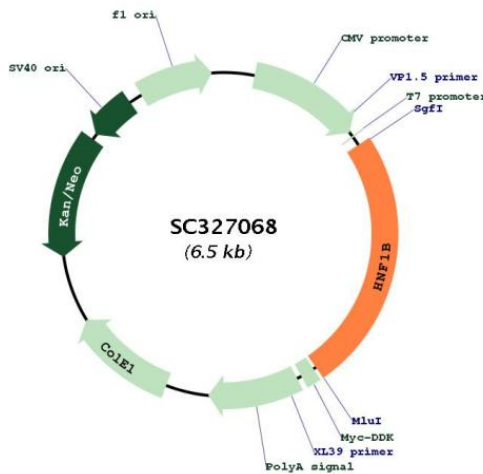
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Restriction Sites:

SgfI-MluI

Plasmid Map:



ACCN:	NM_001165923
Insert Size:	1596 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:	<u>NM_001165923.3</u>
RefSeq Size:	2746 bp
RefSeq ORF:	1596 bp
Locus ID:	6928
UniProt ID:	<u>P35680</u>
Cytogenetics:	17q12
Protein Families:	Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Transcription Factors
Protein Pathways:	Maturity onset diabetes of the young
MW:	58.4 kDa
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 (2) uses an alternate in-frame splice site in the central coding region, compared to variant 1. The resulting isoform (2) lacks an internal segment, compared to isoform 1.</p>