

## Product datasheet for **RR202829**

### **Hnf1b (NM\_013103) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Hnf1b (NM_013103) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hnf1b
Synonyms:	HNF-1-beta; HNF-1B; LF-B3; Tcf2; VHNF1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR202829 representing NM\_013103  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGTGTCCAAGCTCACGTCTCTCCAGCAAGAAGCTCCTGAGTGCCCTGCTGAGCTCCGGAGTACCAAGG  
 AAGTGCTGATCCAGGCCTTGGAGGAATTAAGTCCGTCCTCCCGAATTCGGGGTGAAGCTGGAGACTGCC  
 CCTGTCCCCGGGAGCGGGCGGATCTCGACACCAAGCCGGTTTTCCATACTCTACCAATGGCCACGCC  
 AAGGGCCGCTTGTCTGGGACGAGGGCTCAGAGGACGGGACGACTATGACACTCTCCCATCTCAAAG  
 AGCTCCAGGCGCTCAACACCGAGGAGGCCGCGGAGCAGCGGGCCGAGGTGGACCGGATGCTCAGTGAGGA  
 CCCATGGAGGGCCGCAAAATGATCAAGGGATACATGCAACAGCACAACATCCCCAGAGGGAGGTGGTT  
 GATGTCACAGGCCTGAACCAATCCACCTTTCTCAACACCTCAACAAGGGCACCCCATGAAGACCCAGA  
 AGCGAGCTGCCCTGTACACCTGGTACGTCAGAAAGCAACGGGAGATCCTCCGACAGTTCAACCAGACAGT  
 CCAGAGCTCTGGAACATGACAGACAAAAGCAGTCAGGATCAGCTGCTATTTCTTTCCAGAGTTCAGT  
 CAACAGAACAGGGCCCTGGGCAGTCGGAGGACGCTGCTCTGAGCCACCAACAAGAAGATGCGCCGCA  
 ACCGGTTCAAATGGGGGCCCGCATCCCAGCAAATTTTGTACCAGGCCTACGACCGCAAAAAGAATCCAG  
 CAAGGAAGAGAGGGAGGCCTTAGTGGAGGAGTGTAAACAGGGCAGAATGTTTGAACGAGGGGTCTCCCC  
 TCCAAAGCCATGGCCTAGGCTCCAACCTGGTCACGGAGTCCGTGTCTACAACCTGGTTTGAACCCGCC  
 GGAAGGAAGAGGCATTACAGACAGAAGCTGGCCATGGATGCCTATAGTCCAACAGACGCACAACCTTGA  
 CCCCTGCTACCCATGGCTCCCCTACCACAGCCAAGTCTCTCCACCAACAAGTTGTCAGGAGTA  
 CGCTACAGCCAACCGGAAACAATGAGGTCACTTCCTCTCGACAATCAGTCACCATGGTAACAGTGCCA  
 TGGTACCAGCCAGTCAGTTTTACAACAAGTCTCCCCGGCCAGCTGGACCCAGGCCACAGTCTCCTCTC  
 ACCTGACAGTAAAATGATCTCGGTGTCTGGAGGAGGACTGCCCCCGGTACGACACCTTGACGAATATCCAC  
 AGCCTCTCCACCAACAATCCCCAGCAATCTCAAAACCTCATCATGACTCCCCTGTCCGGAGTCATGGCCA  
 TTGCACAGAGCCTCAACACCTCCCAAGCCAGGGTGTCCAGTCATCAACAGTGTGGCTAGCAGCCTGGC  
 AGCCCTACAGCCCGTCCAGTTCTCTCAACAGCTGCACAGCCCTACCAGCAGCCCTCATGCAGCAGAGC  
 CCAGGCAGTCACATGGCCAGCAGCCCTCATGGCTGCGGTGACTCAGCTACAGAACTCCACATGTATG  
 CACATAAGCAGGAGCCCCCTCAGTATCCACACCTCCCGTTCCCATCTGCAATGGTGGTCACAGATAC  
 CAGTAGCATCAATACCCTACCAGCATGTCTCCAGTAAACAGTGTCCACTGCAAGCCTGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR202829 representing NM\_013103  
 Red=Cloning site Green=Tags(s)

MVSKLTSLQQELLSALLSSGVTKEVLIQALEELLPSNFGVKLETLPLSPGSGADLDTKPVFHTLTNGHA  
 KGRLSGDEGSDDYDTPPIKELQALNTEAAEQRAEVDRLSEDPWRAAKMIKGYMQQHNIPQREV  
 DVTGLNQSLSLHNLKGTMPKTKRAALYTWYVRKQREILRQFNQTVQSSGNMTDKSSQDQLFLFPEFS  
 QQNQGPQSEDACSEPTNKKMRRNRFKWGPASQIILYQAYDRQKNPSKEEREALVEECNRAECLQGVSP  
 SKAHGLGSLNLTVEVRVYNWFANRRKEEAFRQKLAMDAYSNNQTHNLNPLLTHGSPHHQPSSSPPNKL  
 RYSQPGNNEVTSSTISHHGNSAMVTSQSVLQQVSPASLDPGHSLLSPDSKMI SVSGGGLPPVSTLTNIH  
 SLSHHNPQSQNLIMTPLSGVMAIAQSLNLSQAQGVVINSVASSLAALQPVQFSQQLHSPHQQLMQQS  
 PSHMAQQPFMAAVTQLQNSHMYAHKQEPQYSHTSRFPSSAMVVTDTSINTLTSMSSSKQCPLQAW

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

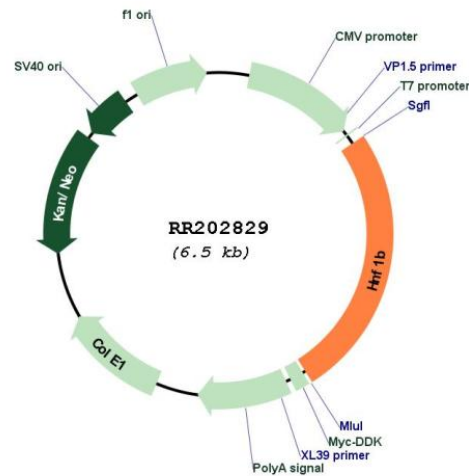
## Cloning Scheme:

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

## Plasmid Map:



<b>ACCN:</b>	NM_013103
<b>ORF Size:</b>	1671 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_013103.2</a> , <a href="#">NP_037235.1</a>
<b>RefSeq Size:</b>	2741 bp
<b>RefSeq ORF:</b>	1674 bp
<b>Locus ID:</b>	25640
<b>UniProt ID:</b>	<a href="#">P23899</a>
<b>Cytogenetics:</b>	10q26
<b>MW:</b>	61.4 kDa
<b>Gene Summary:</b>	transcription factor specific to the liver; member of the homeobox-containing basic helix-turn-helix family [RGD, Feb 2006]