

Product datasheet for SC108790

Inhibin beta E chain (INHBE) (NM_031479) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Inhibin beta E chain (INHBE) (NM_031479) Human Untagged Clone
Tag:	Tag Free
Symbol:	Inhibin beta E chain
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC108790 representing NM_031479. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCGGCTCCCTGATGTCCAGCTCTGGCTGGTGTGCTGTGGGCACTGGTGCGAGCACAGGGGACAGGG
TCTGTGTGTCCCTCTGTGGGGCTCCAACTGGCACCCCAAGCAGAACGAGCTCTGGTGTGGAGCTA
GCCAAGCAGCAAATCCTGGATGGGTTGCACCTGACCAGTCGTCCCAGAATAACTCATCTCCACCCAG
GCAGCGCTGACCAGAGCCCTCCGGAGACTACAGCCAGGGAGTGTGGCTCCAGGGAATGGGGAGGAGTC
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CCTCGGTCCCACCACCTGTACCATGCCCGCTGTGGCTGCACGTGCTCCCACCCTTCTGGCACTTT
TGCTTGAGGATCTTCCGATGGGGACCAAGGAGGAGGCCAAGGGTCCCGCACTCTCTGGCTGAGCAC
CACATACCAACCTGGGCTGGCATACTTAACTCTGCCCTCTAGTGGCTTGGGGTGAAGTCTGGT
GTCCTGAAACTGCAACTAGACTGCAGACCCTAGAAGGCAACAGCACAGTTACTGGACAACCGAGGCGG
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GGCCGGGCCAGGAGGAGGACCCCACTGTGAGCCTGCGACCCCTTATGTTGCAGGCGAGACCATTAC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_031479 unedited
 CATAATTGTATACGACNACTATAGGCGGCACGCGAATTCGCACGAGGTATCCAGACATGA
 TCTGTGAGGGTCAAGCACAGCTATCCATCATATGATCTACTTTTCAGCCTTCTGAGTCCC
 ATACAATAAAGACAGGTGGCTGTACCCCTTGGCCAAAGGTAAGTGTGGCAGTGGTGTCTG
 CTGTCACTGTGCCCTCATTGGCCCCATCAATCAGACTCAACAGACGGATCAACTGCCAT
 CCGATGCTCCTGAACCATGGCCATTACCATGATCATGCGGCTCCCTGATGTCCATCTCT
 GGCTGGTCTGCTGTGGCACTGGTGGCGATCACAGGGGACAGGGTCTGTGTCCCTCCT
 GTGGGGGCTCCAAACTGGCACCCCAAGCATAACGAGCTCTGGTCTGGAGCTAGCCAAGC
 AGCAAATCCTGGATGGTTGCACCTGACCAGTCGTCGCCAGAATAACTCATCCTCCACCCC
 ATGCAGCGCTGACCATATCCCTCCGGATACTACAGCCAGGGAGTGTGGCTCCAGGGAATG
 GGGATGATGTCATCATCTTTGCTACTGTACAGACTCCACTTCATCCTACAGCTCCCTGC
 TCACTTTTACCTGTCCACTCCTCGGTCCCACCACCTGTACCATGCCCGCTGTGGCTGC
 ACGTGCTCCCCACCCTTCTGGCACTCTTTGCTTGAAGATCTCCGATGGGGACCAATGA
 TGATGCGCAATGGTCCGCACTCTCCTGGCTGATCACCACATCACCAACCTGNGCTGGC
 ATACCTTAACTCTGCCCTTATTGGCTTGAGGAGTGATATGTCTGGTGTCCCTGAACTGC
 ATCTATACTGCAGACCCCTATAATGCACAGCACAGTTACTGGACATCCGATGCGGCTCTT
 GGCACAGCATGACACAGCAGCCCTCTATAGTCTATATCCGAGCAA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_031479 unedited
 ACCTTGGGTNTGNNGAAGCCATATCTACGCGNCCTGCTGGGAAAACCCCAACACAAT
 TTTAAGATATTGAGAATTCAAAAGGCAAATAACATGTTAGTATTATTATGAAAATAGCTT
 TGACTTTGTGGACACCCCTGAAAAGGACCTCCAGAAGCCTACAGAGTACACTTGAAGAA
 CTGTTGCTCTGGACCATACCCTAACCCCTCTTTATGACTCACATTTGTTGATTTTCTTT
 CTCCTTTTTATTAAGAAAGTATAAGCCAGGCGCGGTGGCTCACGCCTATAATCTCATCAC
 TTCGGGAGGCCAAGTCGGGTGGATCAAGAGGTCAAGAGATTGAGACCATCCTGGCCAACA
 TGTTGAAACCTCGTTTCTACTAAGAATACAAAAATTAGCGGGCCCGCTGTCATCCAGCT
 GCTCGGCAGGCTGACGCAGAAGAATCACTTGAACCCATGATAACGACGTTGCAGTGAGCC
 ACCATCGTGCTCTGCACTCCAGCCTGGTGCAGAGCGAGACTCGCACTCCCCACACAAGAA
 ACCACAAAGACGCCTTCTGGCTTGTTCATGGGTCCCGGTGCCTTGCTAAAAACCACG
 ACCCTCTACGGCCTATGCCCCATTTTCTACAATCCTGTCTCCGGGGGGCCCTCAGCCC
 CCTGCTTATCGCGCTGCCTCTTACCCTGACCTTGCAGGAAGCGACCTAAGAGGCCCTA
 CCCTGGCCACCCCGGTGACGGTGGTCGACGGGTGCGGGGCAAACCCCTCGTGTCTCCG
 GCCGCACTGTAGGGCATCTGGCCGCGGGGAAACGGGGGATGGACTTTCGGTCCGTCCTCC
 CCTCTCGCTCCGACGCCGGCGCGCTGCCGGCATGACGGGCCGAGGGCGGGCTCC
 GTGGCCGGCGCTCAGCAGGAACCCCTGCGCCCTCTCCC

Restriction Sites:

SgfI-MluI

ACCN:

NM_031479

Insert Size:

1053 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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:

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_031479.3](#)

RefSeq Size: 2453 bp

RefSeq ORF: 1053 bp

Locus ID: 83729

UniProt ID: [P58166](#)

Cytogenetics: 12q13.3

Domains: TGF-beta

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: Cytokine-cytokine receptor interaction, TGF-beta signaling pathway

MW: 38.6 kDa

Gene Summary: This gene encodes a member of the TGF-beta (transforming growth factor-beta) superfamily of proteins. The encoded preproprotein is proteolytically processed to generate an inhibin beta subunit. Inhibins have been implicated in regulating numerous cellular processes including cell proliferation, apoptosis, immune response and hormone secretion. This gene may be upregulated under conditions of endoplasmic reticulum stress, and this protein may inhibit cellular proliferation and growth in pancreas and liver. [provided by RefSeq, Sep 2016]