

Product datasheet for **RG201426**

Inhibin beta E chain (INHBE) (NM_031479) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Inhibin beta E chain (INHBE) (NM_031479) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Inhibin beta E chain
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201426 representing NM_031479 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGGCTCCCTGATGTCCAGCTCTGGCTGGTGTCTGTGGGCACTGGTGCGAGCACAGGGGACAGGGT
CTGTGTGTCCTCCTGTGGGGCTCCAACTGGCACCCCAAGCAGAACGAGCTCTGGTGTGGAGCTAGC
CAAGCAGCAAATCCTGGATGGGTGACCTGACCACTCGTCCAGAATACTCATCTCCACCCAGGCA
GCGCTGACCAGAGCCCTCCGGAGACTACAGCCAGGGAGTGTGGCTCCAGGAATGGGAGGAGGTCATCA
GCTTTGCTACTGTCACAGACTCCACTTCAGCCTACAGCTCCCTGCTCACTTTTCACCTGTCCACTCCTCG
GTCCACACCTGTACCATGCCCCGCTGTGGCTGCACGTGCTCCCCACCTTCCTGGCACTCTTTGCTTG
AGGATCTTCGATGGGACCAAGGAGGAGGCGCCAAGGGTCCCGCACTCTCCTGGCTGAGCACCACATCA
CCAACCTGGGCTGGCATACTTAACCTCTGCCCTCTAGTGGCTTGAGGGGTGAGAAGTCTGGTGTCTGAA
ACTGCAACTAGACTGCAGACCCCTAGAAGGCAACAGCACAGTTACTGGACAACCGAGGCGGCTCTTGGAC
ACAGCAGGACACCAGCAGCCCTTCTAGAGCTTAAGATCCGAGCCAATGAGCCTGGAGCAGGCGGGCCA
GGAGGAGGACCCCACTGTGAGCCTGCGACCCCTTATGTTGCAGGCGAGACCATTACGTAGACTTCCA
GGAAGTGGGATGGCGGGACTGGATACTGCAGCCCGAGGGGTACCAGCTGAATTACTGCAGTGGGCAGTGC
CCTCCCCACCTGGCTGGCAGCCAGGCATTGCTGCCTCTTCCATTCTGCCGTCTTCAGCCTCCTCAAAG
CCAACAATCCTTGGCCTGCCAGTACCTCCTGTTGTGTCCCTACTGCCGAAGGCCCTCTCTCTCTCTA
CCTGGATCATAATGGCAATGTGGTCAAGACGGATGTGCCAGATATGGTGGTGGAGCCTGTGGCTGCAGC

ACGCGTACGCGGCGGCTCGAG - GFP Tag - GTTTAA



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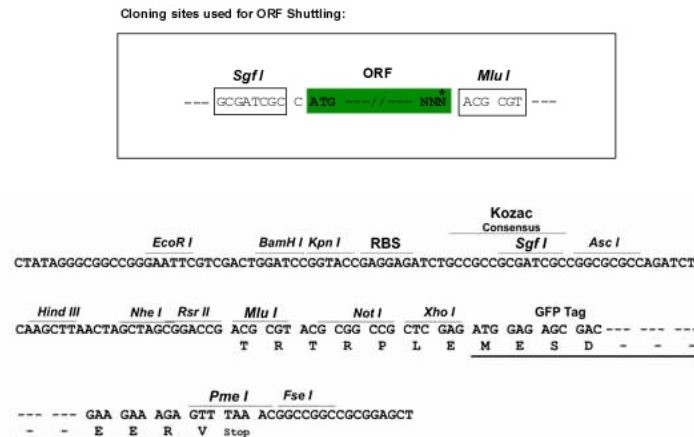
Protein Sequence: >RG201426 representing NM_031479
Red=Cloning site Green=Tags(s)

MRLPDVQLWLVLWLVRAQGTGVSVCPCGGSKLAPQAERALVLELAKQQILDGLHLTSRPRITHPPQA
 ALTRALRRQLPGSVAPNGEEVISFATVTDSTAYSLLTFHLSTPRSHLYHARLWLHVLPTLPGLCL
 RIFRWGPRRRRQGSRTLLAEHHITNLGWHLTLPSSGLRGEKSGVLKLQLDCRPLEGNSTVTGQPRRLD
 TAGHQPFLELKIRANEPGAGRARRRTPTEPATPLCCRRDHYVDFQELGWRDWILQPEGYQLNYCSGQC
 PPHLAGSPGIAASFHSAVFSLLKANNPWPASTSCCVPTARRPLSLLYLDHNGNVKTDVPMVVEACGCS

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_031479

ORF Size: 1050 bp

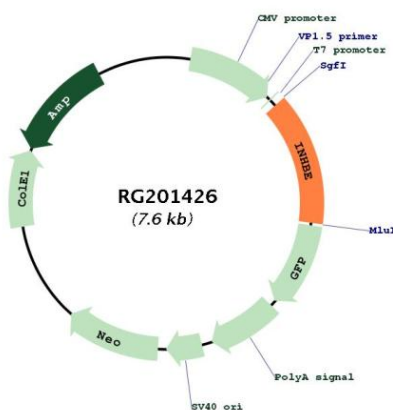
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_031479.5</u>
RefSeq Size:	2453 bp
RefSeq ORF:	1053 bp
Locus ID:	83729
UniProt ID:	<u>P58166</u>
Cytogenetics:	12q13.3
Domains:	TGF-beta
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Cytokine-cytokine receptor interaction, TGF-beta signaling pathway
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]

Product images:



Circular map for RG201426