

Product datasheet for **RC203226**

Inhibin beta A (INHBA) (NM_002192) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Inhibin beta A (INHBA) (NM_002192) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Inhibin beta A
Synonyms:	EDF; FRP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC203226 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCCTTGGCTTGGCTGAGAGGATTTCTGTTGGCAAGTTGCTGGATTATAGTGAGGAGTCCCCACCC
 CAGGATCCGAGGGGCACAGCGCGCCCGACTGTCCGTCTGTGCGCTGGCCGCCCTCCAAAGGATGT
 ACCCAACTCTCAGCCAGAGATGGTGGAGGCCGTAAGAAGCACATTTTAAACATGCTGCACTTGAAGAAG
 AGACCCGATGTCACCCAGCCGGTACCAAGGCGCGCTTCTGAACGCGATCAGAAAGCTTCATGTGGCA
 AAGTCGGGGAGAACGGGTATGTGGAGATAGAGGATGACATTGGAAGGAGGGCAGAAATGAATGAACTTAT
 GGAGCAGACCTCGGAGATCATCACGTTTCCGAGTCAGGAACAGCCAGGAAGACGCTGCACTTCGAGATT
 TCCAAGGAAGGCAGTGACCTGTCAGTGGTGGAGCGTGCAGAACTGGCTCTTCTAAAAGTCCCCAAGG
 CCAACAGGACCAGGACCAAAGTCACCATCCGCTCTTCCAGCAGCAGAAGCACCCGAGGGCAGCTTGA
 CACAGGGGAAGAGCCGAGGAAGTGGGCTTAAAGGGGAGAGGAGTGAAGTGTGCTCTCTGAAAAAGTA
 GTAGACGCTCGGAAGAGCACCTGGCATGTCTCCCTGTCTCCAGCAGCATCCAGCGGTGCTGGACCAGG
 GCAAGAGCTCCCTGGACGTTCCGATTGCCTGTGAGCAGTGCCAGGAGAGTGGCGCCAGCTTGGTTCTCT
 GGGCAAGAAGAAGAAGAAGAAGAGGAGGGGGAAGGGAAAAAGAAGGGCGGAGGTGAAGGTGGGGCAGGA
 GCAGATGAGGAAAAGGAGCAGTCGCACAGACCTTCTCATGCTGCAGGCCCGGCAGTCTGAAGACCACC
 CTCATCGCCGGCGTGGCGGGGCTTGGAGTGTGATGGCAAGGTCAACATCTGCTGTAAGAAAACAGTTCTT
 TGTCAGTTTCAAGGACATCGGCTGGAATGACTGGATCATTGCTCCCTCTGGCTATCATGCCAACTACTGC
 GAGGGTGTGAGTCCCGAGCCATATAGCAGGCACGTCCGGTCTCACTGTCTTCCACTCAACAGTCATCA
 ACCACTACCGCATGCGGGGCCATAGCCCCTTGGCAACCTCAAATCGTGTGTGTGCCACCAAGCTGAG
 ACCCATGTCCATGTTGTACTATGATGATGGTCAAACATCATCAAAAAGGACATTAGAACATGATCGTG
 GAGGAGTGTGGTGCTCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC203226 protein sequence
 Red=Cloning site Green=Tags(s)

MPLLWLRGFLASCWIIVRSSPTPGSEGHSAAPDCPSCALAALPKDVPNSQPEMVEAVKKHILNMLHLKK
 RPDVTQVPKAAALLNAIRKLHVGKVGGENGYVEIEDDIGRRAEMNELMEQTSEIITFAESGTARKTLHFEI
 SKEGSDL SVVERAEVWFLKVPKANRTRTKVTIRLFQQQKHPQGS�DTGEEAEEVGLKGERSELLSEKV
 VDARKSTWHVFPVSSSIQRLLDQKSSLDVRIACEQCQESGASLVLLGKKKKKEEEGEGKKKGEGGAG
 ADEEKEQSHRPFLMLQARQSEDHPHRRRRRGLCEDGKVNICCKKQFFVFSFKDIGWNDWIIAPSGYHANYC
 EGECPSHIAGTSGSSLSFHSTVINHYRMRGHSPFANLKSVCVPTKLRPMSMLYDDGQNIKKDIQNMIV
 EECGCS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6078_a08.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

ACCN: NM_002192

ORF Size: 1278 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](#)

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).

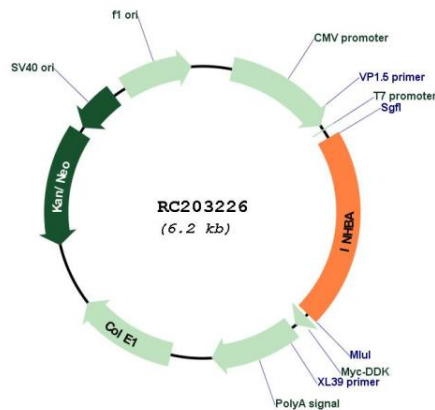
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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.

RefSeq: [NM_002192.4](#)

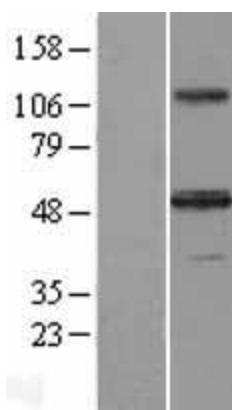
RefSeq Size: 2175 bp
RefSeq ORF: 1281 bp
Locus ID: 3624
UniProt ID: [P08476](#)
Cytogenetics: 7p14.1
Domains: TGFb_propeptide, TGF-beta
Protein Families: Druggable Genome, Secreted Protein
Protein Pathways: Cytokine-cytokine receptor interaction, TGF-beta signaling pathway
MW: 47.4 kDa

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 a subunit of the dimeric activin and inhibin protein complexes. These complexes activate and inhibit, respectively, follicle stimulating hormone secretion from the pituitary gland. The encoded protein also plays a role in eye, tooth and testis development. Elevated expression of this gene may be associated with cancer cachexia in human patients. [provided by RefSeq, Aug 2016]

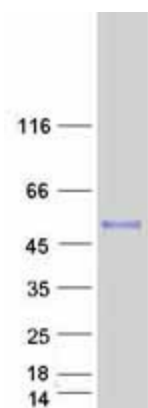
Product images:



Circular map for RC203226



Western blot validation of overexpression lysate (Cat# [LY400796]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203226 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified INHBA protein (Cat# [TP303226]). The protein was produced from HEK293T cells transfected with INHBA cDNA clone (Cat# RC203226) using MegaTran 2.0 (Cat# [TT210002]).