

## Product datasheet for **RG211922**

### Inhibin beta C chain (INHBC) (NM\_005538) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Inhibin beta C chain (INHBC) (NM_005538) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Inhibin beta C chain
Synonyms:	IHBC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211922 representing NM_005538 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCTCCTCATTGCTTCTGGCCTTTCTCCTCCTGGCTCCAACACAGTGGCCACTCCCAGAGCTGGCG  
GTCAGTGTCCAGCATGTGGGGGGCCACCTTGGAACTGGAGAGCCAGCGGGAGCTGCTTCTTGATCTGGC  
CAAGAGAAGCATCTTGGACAAGCTGCACCTCACCCAGCGCCCAACTGAACCGCCTGTGTCCAGAGCT  
GCTTTGAGGACTGCACTGCAGCACCTCCACGGGGTCCCACAGGGGGCACTTCTAGAGGACAACAGGGAAC  
AGGAATGTGAAATCATCAGCTTTGCTGAGACAGGCCTCTCCACCATCAACCAGACTCGTCTTGATTTTCA  
CTTCTCCTCTGATAGAAGTGTGGTACAGGGAGGTCCAGCAGGCCAGTCTCATGTTCTTTGTGCAGCTC  
CCTTCCAATACCACTTGACCTTGAAGTGAAGTCCCTTGTGCTGGGTCCACATAATACCAACCTCACCT  
TGGCTACTCAGTACCTGTGGAGGTGGATGCCAGTGGCTGGCATCAACTCCCCCTAGGGCCTGAAGCTCA  
AGCTGCCTGCAGCCAGGGGCACCTGACCCTGGAGCTGGTACTTGAAGGCCAGGTAGCCCAGAGCTCAGTC  
ATCCTGGGTGGAGCTGCCATAGGCCTTTGTGGCAGCCCGGGTGAAGTGGGGGCAAACACCAGATTC  
ACCGACGAGGCATCGACTGCCAAGGAGGGTCCAGGATGTGCTGTCGACAAGAGTTTTTTGTGGACTCCG  
TGAGATTGGCTGGCAGACTGGATCATCCAGCCTGAGGGCTACGCCATGAACTTCTGCATAGGGCAGTGC  
CCACTACACATAGCAGGCATGCCTGGTATTGCTGCCTCCTTTACACTGCAGTGCATCAATCTTCTCAAG  
CCAACACAGCTGCAGGCACCACTGGAGGGGGCTCATGCTGTGTACCCACGGCCAGCGCCCCCTGTCTCT  
GCTCTATTATGACAGGGACAGCAACATTGTCAAGACTGACATACCTGACATGGTAGTAGAGGCCTGTGG  
TGCACT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG211922 representing NM\_005538  
 Red=Cloning site Green=Tags(s)

```
MTSSLLLAFLLLAPTTVATPRAGGQCPACGGPTLELESQRELLLDLAKRSILDKLHLTQRPTLNRPVSRA
ALRTALQHLHGVPQGALLEDNREQECEIISFAETGLSTINQTRLDFHFSSDRTAGDREVQQASLMFFVQL
PSNTTWTLKVRVLVLPHTNLTLATQYLLEVDASGWHQLPLGPEAQAACSQGHLTLELVLEGQVAQSSV
ILGGAHRPFVAARVRVGGKHQIHRRGIDCQGGSRMCCRQEFFVDFREIGWHDWIIQPEGYAMNFCIGQC
PLHIAGMPGIAASFHTAVLNLLKANTAAGTTGGGSCCVPTAQRPLSLLYDRDSNIVKTDIPDMVVEACG
CS
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_005538

**ORF Size:** 1056 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.

**RefSeq:** [NM\\_005538.4](#)

**RefSeq Size:** 1990 bp

**RefSeq ORF:** 1059 bp

**Locus ID:** 3626

**UniProt ID:** [P55103](#)

**Cytogenetics:** 12q13.3

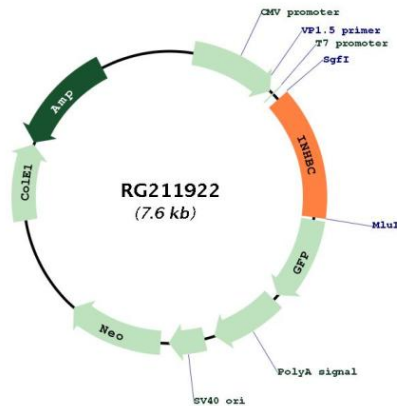
**Domains:** TGF-beta

**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 a subunit of homodimeric and heterodimeric activin complexes. The heterodimeric complex may function in the inhibition of activin A signaling. Transgenic mice overexpressing this gene exhibit defects in testis, liver and prostate. [provided by RefSeq, Aug 2016]

**Product images:**



Circular map for RG211922