

Product datasheet for **RG202819**

Inhibin alpha (INHA) (NM_002191) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Inhibin alpha (INHA) (NM_002191) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	INHA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202819 representing NM_002191 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGGTGTGCACCTACTGCTCTTCTTGCTGCTGACCCACAGGGTGGGCACAGCTGCCAGGGGCTGGAGC
TGGCCCGGGAACCTGTTCTGGCCAAGGTGAGGGCCCTGTTCTTGGATGCCTTGGGGCCCCCGGGTGAC
CAGGGAAGGTGGGGACCTGGAGTCAGGCGGCTGCCCGAAGACATGCCCTGGGGGCTTCACACACAGG
GGCTCTGAGCCCGAGGAAGAGGAGGATGTCTCCAAGCCATCCTTTCCAGCCACAGATGCCAGCTGTG
AGGACAAGTCAGCTGCCAGAGGGCTGGCCAGGAGGCTGAGGAGGGCCTTTCAGATACATGTTCCGGCC
ATCCCAGCATAACGCAGCCGCCAGGTGACTTCAGCCAGCTGTGGTTCCACACCGGGCTGGACAGGCAG
GGCACAGCAGCCTCCAATAGCTCTGAGCCCTGTAGGCCTGCTGGCACTGTACCCGGGAGGACCCGTGG
CTGTGCCCATGTCTTTGGGCCATGCTCCCCCTCACTGGGCCGTGCTGCACCTGGCCACCTCTGCTCTCTC
TCTGCTGACCCACCCCGTCTGGTGTGCTGCTGCGCTGTCCCCTCTGTACCTGCTCAGCCCGCCCTGAG
GCCACGCCCTTCTGGTGGCCCACTCGGACCAGACCACCCAGTGGAGGGGAGAGGCCGACGCTCAA
CTCCCCTGATGTCCTGGCCTTGGTCTCCCTCTGCTCTGCGCTGTGCAGAGGCCCTCCGGAGGAACCGGC
TGCCCATGCCAACTGCCACAGTAGCACTGAACATCTCCTTCCAGGAGCTGGGCTGGGAACGGTGGATC
GTGTACCCTCCCAGTTTCATCTTCCACTACTGTATGGTGGTGTGGGCTGCACATCCCACCAAACCTGT
CCCTTCCAGTCCCTGGGGCTCCCCCTACCCAGCCAGCCCTACTCCTTGTGCTGCCAGGGGCCAGCCCTG
CTGTGCTGCTCTCCAGGGACCATGAGGCCCTACATGTCCGCACCACCTCGGATGGAGGTTACTCTTTT
AAGTATGAGACAGTGCCCAACCTTCTCACGCAGCACTGTGCTTGTATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202819 representing NM_002191
Red=Cloning site Green=Tags(s)

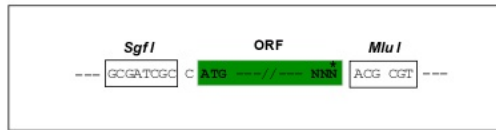
MVLHLLLFLLLPQGGHSCQGLELARELVLAKVRALFLDALGPPAVTREGGDPGVRRLPRRHALLGGFTHR
 GSEPEEEEDVVSQAIFPATDASCEDKSAARGLAQEAEEGLFRYMFRRPSQHTRSRQVTSACLWFHTGLDRQ
 GTAASNSSEPLLGLLALSPGGPVAVPMSLGHAPPHWAVLHLATSALLTHPVLVLLLRCPCLCTCSARPE
 ATPFLVAHTRTRPPSSGGERARRSTPLMSWPWSPSALRLLQRPPEEPAAHANCHRVALNISFQELGWERWI
 VYPPSFIFHYCHGGCLHIPPNLSLPVPGAPPTPAQPYSLPGAQPCCAALPGTMRPLHVRTTSDGGYSF
 KYETVPNLLTQHCACI

TRTRPLE - GFP Tag - V

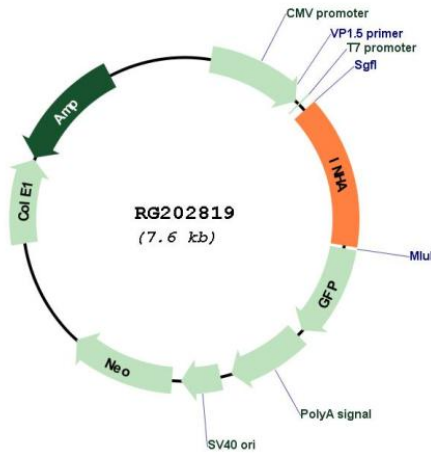
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_002191

ORF Size:	1098 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:	<ol style="list-style-type: none">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_002191.4
RefSeq Size:	1424 bp
RefSeq ORF:	1101 bp
Locus ID:	3623
UniProt ID:	P05111
Cytogenetics:	2q35
Domains:	TGF-beta
Protein Families:	Druggable Genome, Secreted Protein
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 multiple peptide products, including the alpha subunit of the inhibin A and B protein complexes. These complexes negatively regulate follicle stimulating hormone secretion from the pituitary gland. Inhibins have also been implicated in regulating numerous cellular processes including cell proliferation, apoptosis, immune response and hormone secretion. Mutations in this gene may be associated with male infertility and premature ovarian failure in female human patients. [provided by RefSeq, Aug 2016]