*h*Activin RIIA VersaClone cDNA

Catalog Number: RDC1345

Specifications:

Gene:	*h*ACVR2A
Accession:	NP_001607
Insert size:	1555bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

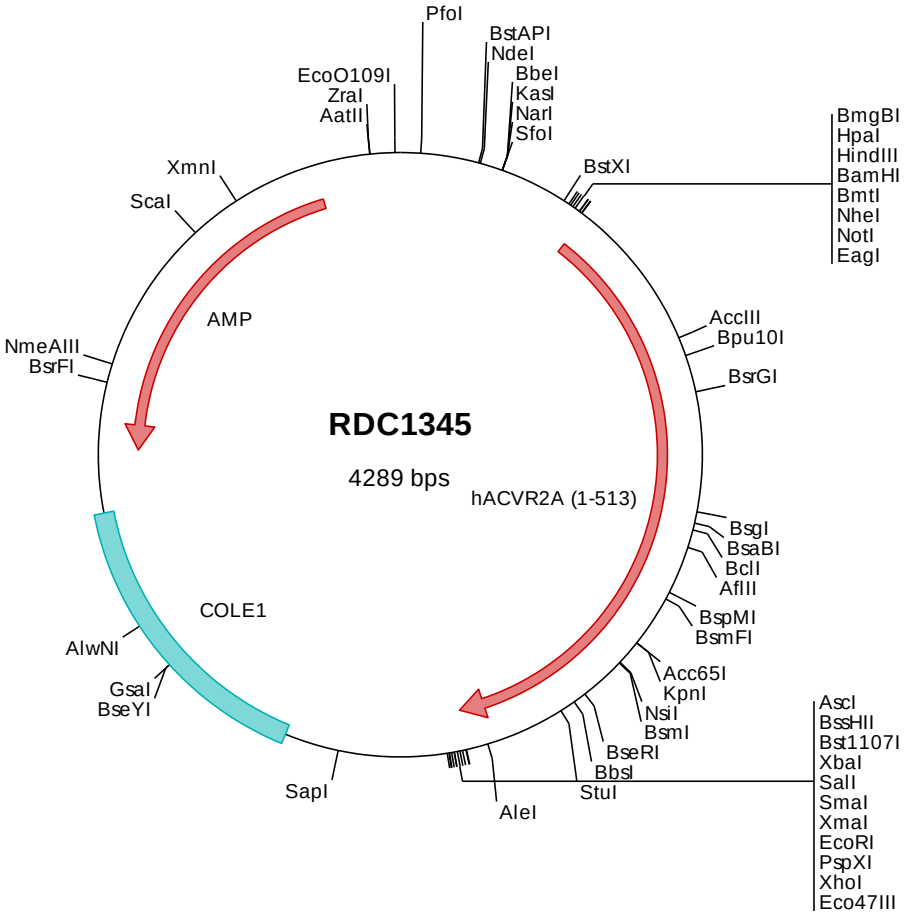
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*h*Activin RIIA cDNA Plasmid

ACVR2A activin A receptor, type IIA [*Homo sapiens* (human)]

Also known as: ACVR2; ACTRII

Summary:
ACVR2A is a transmembrane serine-threonine kinase receptor that mediates the functions of activins, which are members of the TGF-beta superfamily involved in diverse biological processes. It mediates signaling by forming heterodimeric complexes with various combinations of type I and type II receptors and ligands in a cell-specific manner. ACVR2A may be associated with susceptibility to preeclampsia, a pregnancy-related disease which can result in maternal and fetal morbidity and mortality. Alternatively spliced transcripts encoding different proteins have been described.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

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> RDC1345 Plasmid DNA Sequence

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 101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
 401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atgggagctg ctgcaaagtt ggcgtttgcc gtctttctta tctcctgttc
 501  ttcaggtgct atacttggta gatcagaaac tcaggagtgt cttttcttta atgctaattg ggaaaaagac agaaccaatc aaactggtgt tgaaccgtgt
 601  tatggtgaca aagataaacg gcggcattgt tttgctacct ggaagaatat ttctggttcc attgaaatag tgaaacaagg ttgttggctg gatgatatca
 701  actgctatga caggactgat tgtgtagaaa aaaaagacag ccctgaagta tatttttgtt gctgtgaggg caatatgtgt aatgaaaagt tttcttattt
 801  tccggagatg gaagtcacac agcccacttc aaatccagtt acacctaagc caccctatta caacatcctg ctctattcct tggtgccact tatgttaatt
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1801  atggcaatgc tctgtgaaac cattgaagaa tgttgggatc acgacgcaga agccaggtta tcagctggat gtgtaggtga aagaattacc cagatgcaga
1901  gactaacaaa tattattacc acagaggaca ttgtaacagt ggtcacaatg gtgacaaatg ttgactttcc tcccaaagaa tctagtctat aaaggcgcgc
2001  cagtatactc tagagtcgac acccggggaa ttcctcgagc gctcgtctct agcttggcgt aatcatggtc atagctgttt cctgtgtgaa attgttatcc
2101  gctcacaatt ccacacaaca tacgagccgg aagcataaag tgtaaagcct ggggtgccta atgagtgagc taactcacat taattgcgtt gcgctcactg
2201  cccgctttcc agtcgggaaa cctgtcgtgc cagctgcatt aatgaatcgg ccaacgcgcg gggagaggcg gtttgcgtat tgggcgctct tccgcttcct
2301  cgctcactga ctcgctgcgc tcggtcgttc ggctgcggcg agcggtatca gctcactcaa aggcggtaat acggttatcc acagaatcag gggataacgc
2401  aggaaagaac atgtgagcaa aaggccagca aaaggccagg aaccgtaaaa aggccgcgtt gctggcgttt ttccataggc tccgcccccc tgacgagcat
2501  cacaaaaatc gacgctcaag tcagaggtgg cgaaacccga caggactata aagataccag gcgtttcccc ctggaagctc cctcgtgcgc tctcctgttc
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4101  ttcaatatta ttgaagcatt tatcagggtt attgtctcat gagcggatac atatttgaat gtatttagaa aaataaacaa atagggggttc cgcgcacatt
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> RDC1345 Translated Insert Sequence

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 201  grfgcvwkaq llneyvavki fpiqdkqswq neyevyslpg mkhenilqfi gaekrgtsvd vdlwlitafh ekgslsdflk anvvswnelc hiaetmargl
 301  aylhedipgl kdghkpaish rdiksknvll knnltaciad fglalkfeag ksagdthgqv gtrrymapev legainfqrd aflridmyam glvlwelasr
 401  ctaadgpvde ymlpfeeeig qhpsledmqe vvvhkkkrpv lrdywqkhag mamlcetiee cwdhdaearl sagcvgerit qmqrltniit tedivtvvtm
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