

Specifications:

Gene:	hBMPR1A
Accession:	NP_004320
Insert size:	1612bp
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.

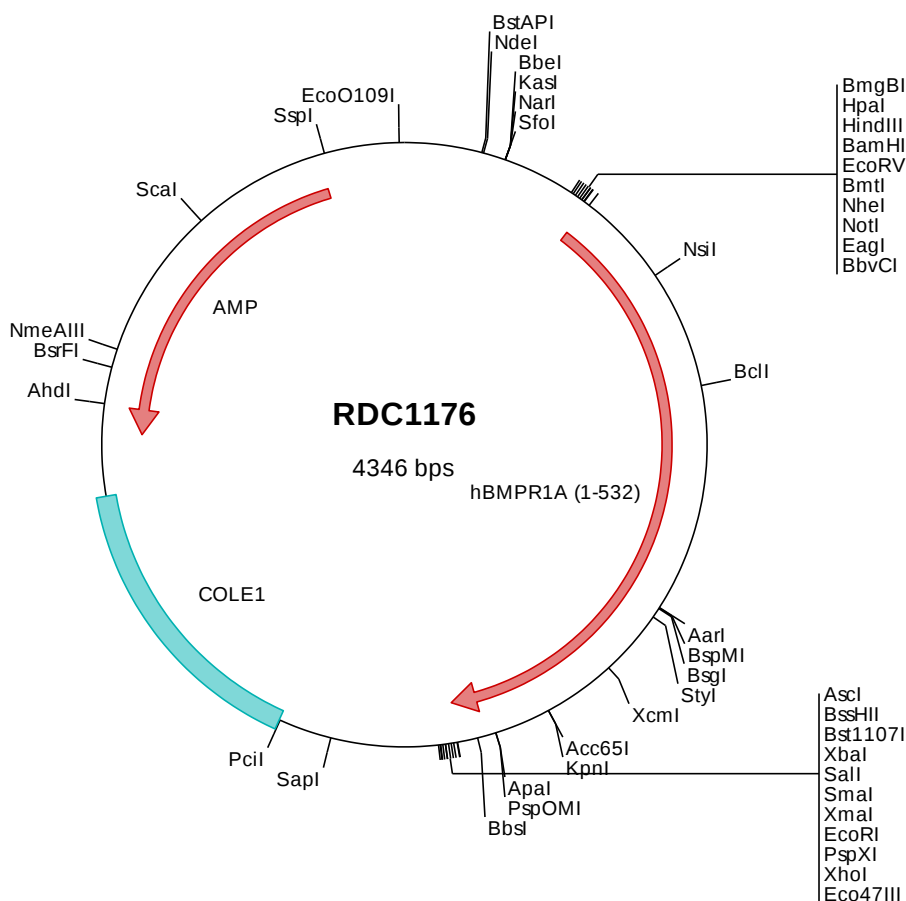
hBMPR-1A/ALK-3 cDNA Plasmid

BMPR1A bone morphogenetic protein receptor, type IA [*Homo sapiens* (human)]

Also known as: ALK3; SKR5; CD292; ACVRLK3; 10q23del

Summary:

BMPR1A is one of seven known type I serine/threonine kinases that are required for the signal transduction of TGF β family cytokines. In contrast to the TGF β receptor system in which the type I receptor does not bind TGF β in the absence of the type II receptor, type I receptors involved in BMP signaling, including BMPR1A, can independently bind the various BMP family proteins in the absence of type II receptors.





> RDC1176 Plasmid DNA Sequence

```
1   tcgcgcggtt cggatgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcaggggcgc tcagcgggtg ttggcgggtg tccgggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgcatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagctt ggaatcgata tccgtagcgc ggccgcacac atgcctcagc tatacattta catcagatta ttgggagcct atttgttcat
501  cattctcgtg gttcaaggag agaactctga tagtatgctt catggcactg ggatgaaatc agactccgac cagaaaaagt cagaaaaatg agtaacotta
601  gcaccagagg ataccttgcc ttttttaaag tgcatttgcg cagggcactg tccagatgat gctattaata acacatgcat aactaatgga cattgtttg
701  ccatcataga agaagatgac caggagagaa ccacattagc ttcagggtgt atgaaatag aaggatctga ttttcagtgc aaagattctc caaaagccca
801  gctacgcggg acaatagaat gttgtcggac caatttatgt aaccagtatt tgcaacccac actgccccct gttgtcctag gtccgttttt tgatggcagc
901  attcgatggc tggttttgct catttctatg gctgtctgca taattgtctat gatcatcttc tccagctgct tttgttacia acattattgc aagagcatct
1001 caagcagacg tcgtttacaat cgtgatttgg aacaggatga agcatttatt ccagtgggag aatcactaaa agacctattt gaccagtcac aaagtctctg
1101 tagtgggtct ggactaacct tatttggcca cgcgaactatt ttcagatggg cgggcaagtt ggtaaaagcc gatattggaga agtatggatg
1201 ggcaaatggc gtggcgaaaa agtggcgggtg aaagtattct ttaccactga agaagccagc tggtttcgag aacacagaaat ctaccaaact gtgctaagtc
1301 gccatgaaaa catacttggt ttcctagcgg cagacattaa aggtacaggt tccctggactc agctctattt gattactgat taccatgaaa atggatctct
1401 cctatgacttc ctgaaatgtg ctacactgga caccagagcc ctgctttaat tggcttattc agctgcctgt accctgcacac agaaatttat
1501 ggcaacccaa gaaagccgcg aattgtctcat cgagaccta aagacaaaaa catcctcatc aagaaaaatg ggagttgctg cattgctgac ctgggccttg
1601 ctgtttaaatt caacagtgc acaaatgaag ttgatgtgcc cttgaatacc aggggtgggca ccaaacgcta catggctccc gaagtgtctg acgaaagcct
1701 gaacaaaaac cacttcacgc cctacatcat tacagctctg gcttaactat ctaggagatg gctcgtcgtt gtatccacag agggatcgtg
1801 gaagaatacc aattgcatata ttacaacatg gtacccagtg atccgtcata cgaagatgat cgtgaggttg tgtgtgtcaa acgtttgcg ccaattgtgt
1901 ctaatcggtg gaacagtgat gaatgtctac gaggcgtttt gaagctaag tcagaaatgt gggccacaaa tccagcctcc agactcacag cattgagaat
2001 taagaagacg cttgccaaaga tggttgaatc ccaagatgta aaaatctaaa ggccgcgcag tatactctag agtcgacacc cggggaattc ctgcagcgct
2101 cgtctctagc ttggcgtaat catggtcata gctgtttcct gtgtgaaatt gttatccgct cacaattcca cacaacatac gagccggaag cataaagtg
2201 aaagcctggg gtgcctaatg agtgagctaa ctcacattaa ttgcgttgcg ctcactgccc gctttccagt cgggaaacct gtcgtgccag ctgcattaat
2301 gaatcgccca acgcgcggg agagcggtt tgcgtatttc gcttctctcc gcttctctcc tcactgactc gctgcgctcg gtcgttcggc tgccggcagc
2401 ggtatcagct cactcaaaag cggtaatacg gttatccaca gaatcagggg ataacgcagg aaagaacatg tgagcaaaag gccagcaaaa gcccggaac
2501 cgtaaaaaag ccgcgttgct ggcgtttttc cataggtccc gcccccctga cgagcatcac aaaaatcgac gctcaagtca gaggtggcga aacccgacag
2601 gactataaag ataccagcg tttcccccct gaagctccct cgtgcgctct cctgttccga cctgcgcgtg taccggatac ctgtccgcct tctcctcttc
2701 gggaagcgtg gcgctttctc aatgctcagc ctgtaggtat ctcagttcgg ttagagtcgt tcgctccaag ctgggctgtg tgcacgaacc ccccgctcag
2801 cccgaccgct gcgccttacc cggtaactat cgtcttgagt ccaacccggt aagacacgac ttatcgccac tggcagcagc cactggtaac aggattagca
2901 gagcgaggtg ttagggcggt gctacagagt tcttgaagtg gtggcctaac tacggctaca ctagaaggac agtatttggg atctgcgctc tgctgaagcc
3001 agttaccctt ggaaaaaag ttggtagctc ttgatccggc aaaaacacca ccgctggtag cgggtgtttt tttgtttgca agcagcagat tacgcgcaga
3101 aaaaaaggat ctcaagaaga tcttttgatc ttttctacgg ggtctgacgc tcagtggaa c gaaaactcac gtaagggat tttggtcatg agattatcaa
3201 aaaggatctt cactagatc ctttttaatt aaaaatgaag ttttaaatca atctaaagta tatatgagta aacttggtct gacagttacc aatgcttaat
3301 cagtggagca cctatctcag cgtatctgtc atttcgttca tccatagttg cctgactccc cgtcgtgtag ataactacga tacgggaggg cttaccatct
3401 ggccccagtg ctgcaatgat acccgcagac ccacgctcac cggctccaga tttatcagca ataaaccagc cagccggaag gcccgagcgc agaagtggc
3501 ctgcaacttt atccgcctcc atccagtcct ttaattgttg cccgggaagct agagtaagta gttcgccagt taatagtttg cgcaacgttg ttgccattgc
3601 tacaggcatc gtggtgtcac gctcgtcgtt ttggtatgct tcaattcagct ccggttccca acgatcaagg cgagttacat gatcccccat gttgtgcaaa
3701 aaagcggtta cgtccttcgc tctctcagat gttgtcagaa gtaagttggc cgcagtgtta tcaactatgg tttatggcagc actgcataat tctcttactg
3801 tcatgccatc cgttaagatg ttttctgtga cttggtgagta ctcacccaag tcaattctgag aatagtgatg gctgctctct gcccgcgctc
3901 aatacgggat aataccgcgc cacatagcag aactttaaaa gtgctcatca ttggaaaaag ttcttcgggg cgaaaactct caaggatctt accgctgttg
4001 agatccagtg ccatgtaacc cactcgtgca cccaactgat cttcatcact ttttactttt accagcgttt ctgggtgagc aaaaacaaatg aggcataatg
4101 cgcacaaaaa ggggaataag gcgacacgga aatgttgaat actcatactc ttcctttttt aatattattg atgacatttt cagggttatt gtctcatgag
4201 cggatacata tttgaatgta tttagaaaaa taaacaaata ggggttccgc gcacatttcc ccgaaaaatg ccacctgacg tctaagaaac cattatttat
4301 atgacattaa cctataaaaa taggcgtatc acagagccct tctgcctc
```

> RDC1176 Translated Insert Sequence

```
1   mpqliyirll lgaylfiisr vqgqnlmsl hgtgmksdsd qkksengvlt apedtlpflk cycsghcpdd ainntcitng hcfaieedd qgettlasgc
101  mkyegsdfqc kdspsaqllr tieccrtnlc nqylqptlpp vvigpffdgs irwlvllism avciiamiif sscfcykhyc ksissrrryn rdleqdeafi
201  pvgesikdli dqsqsqsgs glpllvqrli akqimvrqv gkgrygevwm gkwrgekav kvffttteas wfreteiyqt vlmrhenilg fiaadikgtg
301  swtqllyltd yhengslidf lkcatldtra llklaysaac glchlhteyi gtgkpaiah rdlksknili knngscciad lglavkfnsd tnevdvplnt
401  rvgtkrymap evldeslnkn hfqpyimadi ysfgliiem arrcitggiv eeyqlpyynm vpsdpsyedm revvcvkrir pivsnrwnsd eclravklm
501  secwahnpas rltalrikkt lakmvesqdv ki
```