

## Specifications:

Gene:	hSTEAP1
Accession:	NP_036581
Insert size:	1031bp
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.

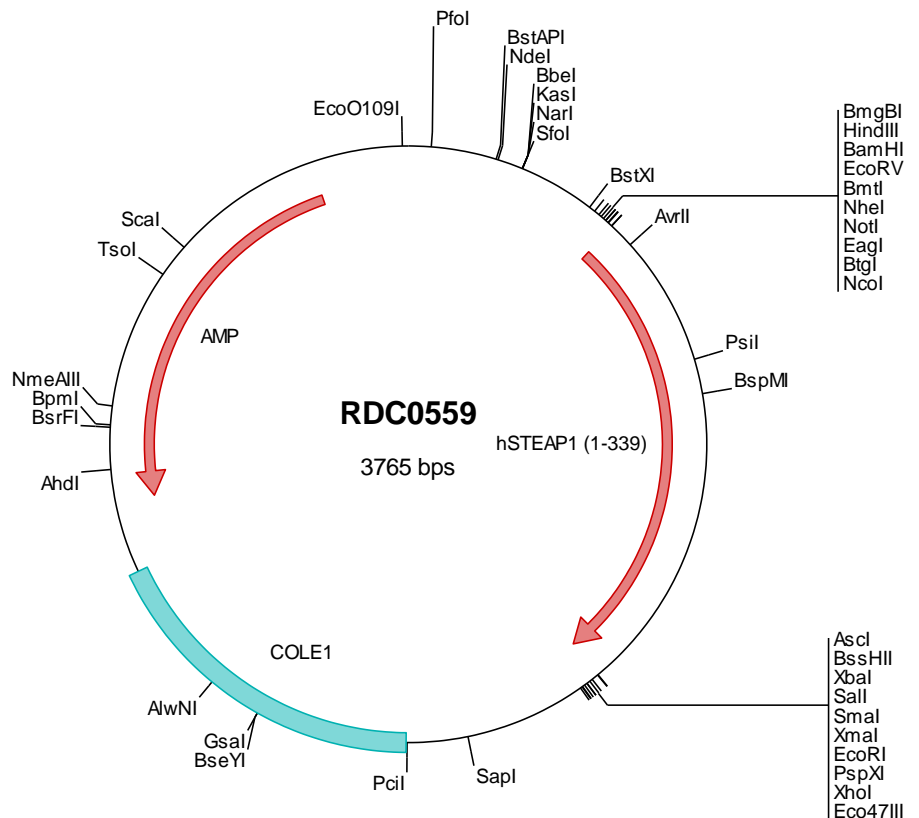
## hSTEAP1 cDNA Plasmid

**STEAP1 six transmembrane epithelial antigen of the prostate 1 [ *Homo sapiens* ]**

**Also known as:** STEAP; PRSS24

### Summary:

STEAP1 is predominantly expressed in prostate tissue. It is found to be upregulated in multiple cancer cell lines. STEAP1 is predicted to be a six-transmembrane protein, and was shown to be a cell surface antigen significantly expressed at cell-cell junctions. This protein is an immunohistological marker for outcome prediction in patients with Ewing's sarcoma, the second most common bone or soft-tissue sarcoma in childhood and adolescence.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS



> RDC0559 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tetgacacat gcaagctccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcaggggcgc tcagcgggtg ttggcgggtg tccgggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatattgc gtgtgaaata
201 ccgcacacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtgcgggcc tcttcgctat
301 taagccagct ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta acgcccagggt ttcccagtc acgacgtgtg aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagctt ggatccgata tcgctagcgc gggcggcacc atggaaagca gaaaagacat cacaaaccaa gaagaacttt ggaaaatgaa
501 gcoctaggaga aatttagaag aagacgatta ttgacataag gacacgggag agaccagcat gctaaaaaga cctgtgcttt tgcatttgca ccaaacagcc
601 catgtgatg aatttgactg cccttcagaa cttcagcaca cacaggaact ctttccacag tggcacttgc caattaaaat agctgctatt atagcatctc
701 tgacttttct ttacactcct ctgagggaag taattcacc ctttagcaact tccatcaac aatattttta taaaattcca atcctggtca tcaacaaggt
801 cttgocaaatg gtttocaatc ctctctggc attggtttac ctgcccagggt tgatagcagc aattgtocaa cttcataatg gaaccaagta taagaagttt
901 ccacattggt tggataagtg gatgttaaca agaaagcagt ttgggcttct cagtttcttt ttgtgtgac tgcattgcaat ttagtgtgtg tcttaaccaa
1001 tgaggcgatc ctacagatc aagttgctaa actgggcata toaacaggtc caacaaaata aagaagatgc ctggattgag catgatgttt ggagaatgga
1101 gatttatgtg tctctgggaa ttgtgggatt ggcaatactg gctctgttgg ctgtgacatc tattccatct gtgagtgaact cttgacatg gagagaattt
1201 cactatattc agagcaagct aggaattggt tccctctac tgggcacaat acagcattg atttttgctt ggaataagtg gatagatata aaacaatttg
1301 tatggtatc actcocaact tttatgatag ctgttttctt tccaattggt gtctgatat ttaaaagcat actattctct ccatgcttga ggaagaagat
1401 actgaagatt agacatggtt gggaaagcgt caccaaaatt aacaaaactg agatatgttc ccagttgtag gcgcgccagt atactctaga gtcgacaccc
1501 ggggaattcc tcgagcgtc gtctctagct tggcgtaatc atggtcatag ctgtttcctg tgtgaaattg ttatccgctc acaattccac acaacatacg
1601 agccggaagc ataaagtga aagcctgggg tgcctaatag gtgagctaac tcacattaat tgcgttgcgc tcaactgccc ctttccagtc gggaaacctg
1701 tcgtgccagc tgcattaatg aatcggccaa cgcgcgggga gaggcggttt gcgtattggg cgtctctccg cttcctcgtc cactgactcg ctgcgctcgg
1801 tcgttcggct gcgcgagcgt gtatcagctc actcaaaaggc ggaataacgg ttatccacag aatcagggga taacgcagga aagaacatgt gagcaaaagg
1901 ccagcaaaag gccaggaacc gtaaaaaggc cgcggttctg gcggttttcc ataggctccg cccccctgac gagcatcaca aaaatcgacg ctcaagtacg
2001 aggtggcgaa acccgacag actataaaga taccaggcgt tccccctgg aagctccctc gtgcgctctc cctgcccgtt accggatacc
2101 tgtccgcctt tctcctctcg ggaagcgtgg cgtcttctca atgctcacgc ttaggtatc tcagttcggg taggtgctgt cgtcccaagc tggcctgtgt
2201 gcaagaacc ccgcttctcgc ccgaccgctg cgccttatcc ggtaactatc gtcttgatc caaccggta agacacgact tatcgccact ggcagcagcc
2301 actggtaaac ggattagcag agcgaaggtat gtaggcggtg ctacagagtt cttgaagtgg tggcctaact acggctacac tagaaggaca gtatttgga
2401 tctcgcctct gctgaagcca gttacctctg gaaaaagagt tggtagctct tgatccggca aacaaaccac cgctggttagc ggtggttttt ttgtttgcaa
2501 gcagcagatt acgagcagaa aaaaaggatc tcaagaagat cctttgatct tttctacggg gtctgacgct cagtggaagc aaaactcacg ttaagggatt
2601 ttggctatga gattatcaaa aaggatcttc acctagatcc ttttaaatg aaaaatgaagt tttaaatcaa tctaaagtat atatgagtaa acttggctctg
2701 acagttaaca atgcttaatc agtgaggcac ctatctcagc gatctgtcta tttcgttcat ccatagttgc ctgactcccc gtcgtgtaga taactacgat
2801 acgggagggc ttaccatctg gccccagtgct tgcaatgata ccgcgagacc cacgctcacc ggctccagat ttatcagcaa taaaccagcc agccggaagg
2901 gccgagcgca gaagtgttcc tgcaacttta tccgctcca tccagctat taattgttgc cgggaaagta gagtaagtag ttcgcccagtt aatagtttgc
3001 gcaacggtgt tgccattgct acaggcatcg tgggtgacag ctctcgtt ggtatggctt cactcagctc cggttcccaa cgatcaagggc gagttacatg
3101 atccccatg ttgtgcaaaa aagcgggttag ctctctcgtt cctccgagc ttgtcagaag taagttggcc gcagtggtat cactcatggt tatggcagca
3201 ctgcataatt ctcttactgt catgccatcc gtaagatgct tttctgtgac tttctgtgac tcaaccaagt cattctgaga atagtgtatg cggcgaccga
3301 gttgtctctg cccggcgctc ataccgggata ataccgccc acatagcaga actttaaaag tgcctcatat tggaaaaactg tcttcggggc gaaaaactctc
3401 aaggatctta ccgctgttga gatccagttc gatgtaacc actcgtgac ccaactgatc ttcagcatct cttactttca ccagcgtttc tgggtgagca
3501 aaaaacaggaa ggcataaatgc cgcaaaaag ggaataaggg cgacacggaa atgttgaata ctcatactct tcccttttca atattattga agcatttatc
3601 agggttattg tctcatgagc ggatacatat ttgaatgtat ttgaaaaaat aaacaaatag gggttcccg cacttttccc cgaaaagtgc cacctgacgt
3701 ctaagaaacc attattatca tgacattaac ctataaaaaat aggcgtatca cgaggccctt tcgctc

> RDC0559 Translated Insert Sequence

1 mesrkditng eelwkmkpr nleeddylhk dtgetsmkr pvllhlhqt hadefdcps lqhtqelfpq whlpikiaai iasltfflytl lrevihplat
101 shqqyfykip ilvinkvlpm vsitllalvy lpgviaaivq lhnngtkykkf phwldkwmlt rkqfgllsff favlhaiysl sypmrrrsyry kllnwayqqv
201 qnkedawie hdvwrmeiyv slgivglail allavtsips vsdsltwref hyiqsklgiv slllgtihal ifawnkwidi kqfvywtppt fmiavflpiv
301 vlifksilfl pclrkkilki rhgwedvtki nkteicsql