

Specifications:

Gene:	<i>hTSPAN4</i>
Accession:	NP_003262
Insert size:	730bp
Concentration:	10µg at 0.2µg/µL

**hTSPAN4 cDNA
Plasmid**

TSPAN4 tetraspanin 4 [*Homo sapiens* (human)]

Also known as: NAG2; NAG-2; TM4SF7; TSPAN-4; TETRASPAN

Summary:

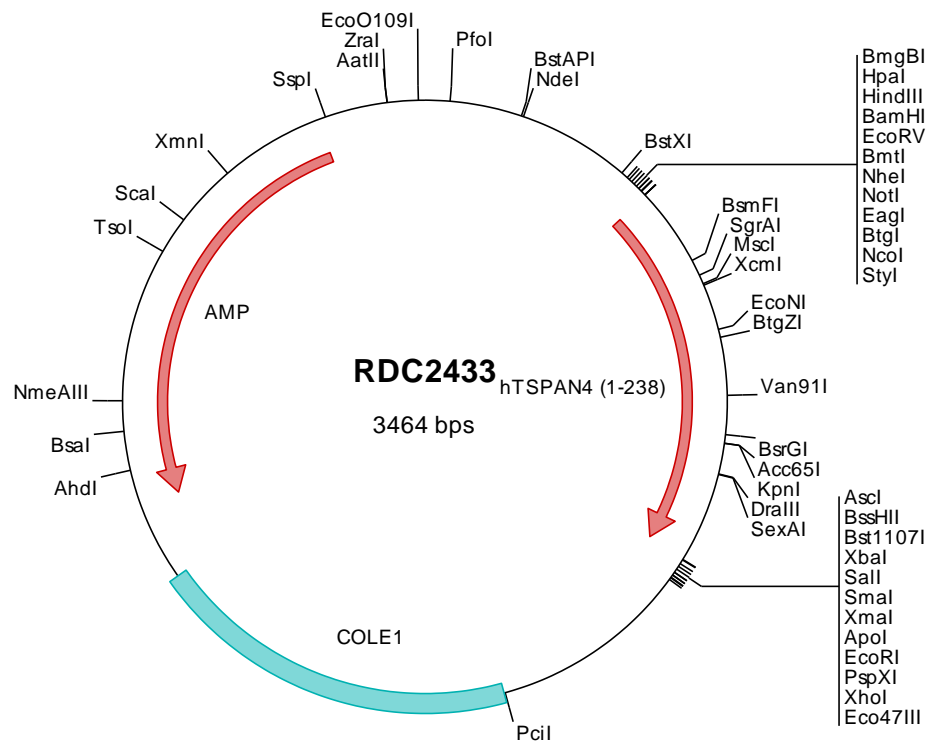
TSPAN4 is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. TSPAN4 is a cell surface glycoprotein and is similar in sequence to its family member CD53 antigen. It is known to complex with integrins and other transmembrane 4 superfamily proteins. Alternatively spliced transcripts encoding different proteins have been described.

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.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC2433 Plasmid DNA Sequence

```

1   tcgctgcttt  cggatgatgac  ggtgaaaaacc  totgacacat  gcagctcccc  gagacgggtca  cagcttgtct  gtaagcggat  gccggggagca  gacaagcccc
101  tcaggggcgcg  tcagcgggtg  ttggcgggtg  tcggggctgg  cttaaactatg  cggcatcaga  gcagattgta  ctgagagtgc  accatatgcg  gtgtgaaata
201  ccgcacacgat  gcgtaaggag  aaaataccgc  atcaggcgcc  attgccatt  caggctcgc  aactgttggg  aagggcgatc  ggtcgggcc  tcttcctat
301  tacgccagct  ggcgaaaagg  ggatgtgctg  caaggcgatt  aagttgggta  acgccagggt  tttcccagtc  acgacgttgt  aaaacgacgg  ccagtgatt
401  ggagacgtgt  taacaagctt  ggatccgata  tcgctagcgc  ggccgccacc  atggcacgcy  cttgcoctca  ggccgtcaag  tacctcatgt  tcgccttcaa
501  cctgctcttc  tggctgggag  gctgtggcgt  gctgggtgtc  ggcactctggc  tggccgccac  acaggggagc  ttcgccacgc  tctctcttc  cttcccgctc
601  ctgtctggctg  ccaacttgct  catcatcacc  ggcgcctttg  tcatggccat  cggctctgtg  ggtgcoctgg  gtgccatcaa  ggagaacaag  tgccctctgc
701  tcactttctt  cctgctgctg  ctgctgggtg  tcctgctgga  ggccaccaat  gccatcctct  tcttcgccta  caccgacaag  attgacaggt  atgccagca
801  agacctgaag  aaaggcttgc  acctgtacgg  caccgagggc  aactgtggcc  tcaccaacgc  ctggagcatc  atccagaccg  acttccgctg  ctgtggcgtc
901  tccaactaca  ctgactgggt  cgagggtgac  aacgccacgc  gggtagctga  ctctgtctgc  ttggagtcca  gtgagagctg  tgggtgcac  gcccccggca
1001 ctggttgaa  ggcccgctgc  tacgagctgc  tgaagggtg  gcttcaggag  aacctgctg  ctgtgggcat  ctttgggctg  tgcacggcgc  tggtagat
1101 cctgggctcg  accttgcaca  tgacctgta  ctgccaaagt  gtcaaggcag  acacctactg  cgcgtaaagg  cggccagta  tactctagag  tcgacaccgc
1201  gggaattcct  cgagcgctcg  tctctagctt  ggcgtaatca  tggctatagc  tgtttcctgt  gtgaaattgt  tatccgctca  caattccaca  caacatcaga
1301  gccggaagca  taaagtgtaa  agcctggggt  gcctaagtga  tgagctaaact  cacattaatt  gcgttgcgct  cactgcccgc  tttccagctg  ggaaacctgt
1401  cgtgccagct  gcattaatga  atcggccaac  gcgcggggag  aggcggtttg  cgtattgggc  gctcttccgc  ttcctcgctc  actgactcgc  tgcgctcgtg
1501  cgttcggctg  cggcgagcgg  tatcagctca  ctcaaaaggc  gtaatacgtt  tatccacaga  atcaggggat  aacgcaggaa  agaactatgt  agcaaaaggc
1601  cagcaaaaagg  ccaggaaccg  taaaaaggcc  gcggtgctgg  cgtttttcca  taggctccgc  ccccctgacg  agcatcacia  aaatcgacgc  tcaagtcaaga
1701  ggtggcgaaa  cccgacagga  ctataaagat  accagcgctt  tcccctgga  agctcccctg  tgcgctctcc  tgttccgacc  ctgcccgtta  ccggataact
1801  gtcgccttt  ctccctcgg  gaagcgtggc  gctttctcaa  tgctcagct  gtaggtatct  cagttcgggt  taggtcgttc  gctccaagct  gggctgtgtg
1901  ctcgaacccc  ccgttcagcc  gcacctcgc  gccttatccg  gtaactatcg  tcttgagctc  aaccggtaa  gacacgact  atcggcaact  gcagcagcca
2001  ctggtaacag  gattagcaga  gcgaggtatg  taggcgggtc  tacagagttc  ttgaagtgtt  ggccaaacta  cggctacact  agaaggacag  tatttgggat
2101  ctgcgctctg  ctgaagccag  ttaacctcgg  aaaaagatt  ggtagctctt  gatccggcaa  acaaacacc  gctgtagcg  gtggtttttt  taattgcaag
2201  cagcagatta  cgcgcagaaa  aaaaggatct  caagaagatc  ctttgacttt  ttctacgggg  tctgacgctc  agtggaaacga  aaactcagct  taagggattt
2301  tggctcatgag  attatcaaaa  aggatcttca  cctagatcct  tttaaattaa  aaatgaagtt  ttaaatcaat  ctaaagtata  tatgagtaaa  cttggtctga
2401  cagttaccaa  tgcctaatca  ttactcagcc  atctcagcg  atctgtctat  ttcggtctac  catagttgcc  tgaactcccgc  tcgtgtagat  aactacgata
2501  cgggagggct  taccatctgg  ccccagtgct  gcaatgatac  cgcgagacc  acgctcaccg  gctccagatt  tatcagcaat  aaaccagcca  gccggaaggg
2601  ccgagcgcag  aagtggctct  gcaactttat  ccgctccat  ccagctctat  aattgttgcc  gggaaagctag  agtaagtagt  tcgccagtta  atagtttgcg
2701  caacgttgtt  gccattgcta  caggcatcgt  ggtgtcacgc  tcgtcgtttg  tgatgcttc  attcagctcc  ggttcccac  gatcaaggcg  agttacatga
2801  tccccatgt  tgtgcaaaaa  agcggttagc  tccttcggtc  ctccgatcgt  tgtcagaagt  aagttggcgc  cagtgttatc  actcatggtt  atggcagcac
2901  tgcataattc  tcttactgtc  atgccatccg  taagatgctt  ttctgtgact  ggtgagtagt  caaccaagtc  attctgagaa  tagtgtatg  ggcgaccgag
3001  ttgctcttgc  ccggcgtcaa  tacgggataa  taccgcgcca  catagcagaa  ctttaaaagt  gctctcatt  ggaaaacggt  cttcggggcg  aaaaactca
3101  aggatcttac  cgctgttgag  atccagttcg  atgtaacca  ctctgcacc  caactgatct  tcagcatctt  ttactttcac  cagcgtttct  ggttgagcaa
3201  aaacaggaag  gcaaaatgcc  gcaaaaaagg  gaataaggcg  gacaccgaaa  tgttgaatac  tcatactctt  ctttttcaa  tattattgaa  gcatttatca
3301  gggttattgt  ctcatgagcg  gatacatatt  tgaatgtatt  tagaaaaata  acaaatagg  ggttccgcgc  acatttcccc  gaaaagtgcc  acctgacgtc
3401  taagaacca  ttattatcat  gacattaacc  tataaaaaa  ggcgtatcac  gaggccttt  cgtc

```

> RDC2433 Translated Insert Sequence

```

1   maraclqavk  ylmfafnllf  wlggcgvlgv  giwlaatqgs  fatlsssfps  lsaanlliit  gafvmaigfv  gclgaikenk  cllltfflll  llvfilleati
101  ailffaytdk  idryaqqdlk  kglhlygtqg  nvgltnaws  iqtldrccgv  snytdwfevy  natrvpdscc  lefsescglh  apgtwwkpac  yetvkwvlqe
201  nllavgifgl  ctalvqilgl  tfamtmycqv  vkadytca

```