

Specifications:

Gene:	mThbd
Accession:	NP_033404.1
Insert size:	1747bp
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.

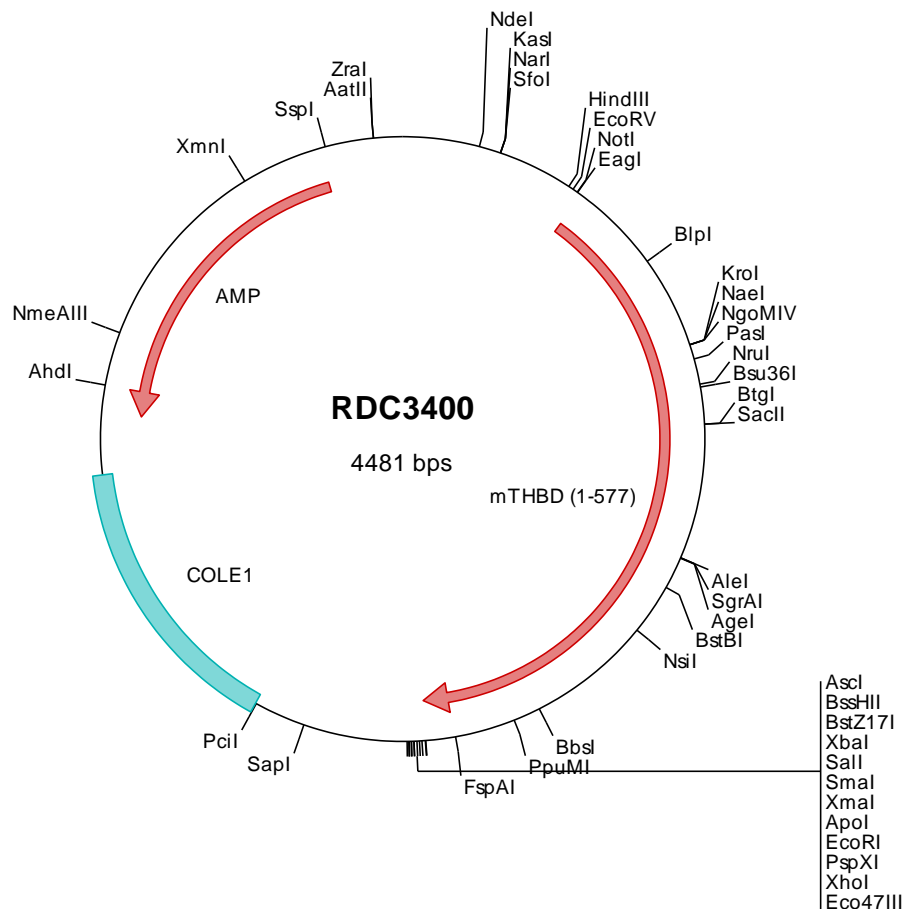
mTHBD/BDCA-3 cDNA Plasmid

Thbd thrombomodulin [*Mus musculus* (house mouse)]

Also known as: TM; CD141; AI385582

Summary:

THBD is an endothelial-specific type I membrane receptor that binds thrombin. This binding results in the activation of protein C, which degrades clotting factors Va and VIIIa and reduces the amount of thrombin generated. Mutations in THBD are a cause of thromboembolic disease, also known as inherited thrombophilia.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC3400 Plasmid DNA Sequence

```

1 tcgctgctgtt cggatgatgac ggtgaaaacc totgacacat gcagctcccc gagacgggtca cagcttgtct gtaagcggat gccgggagca gacaagcccc
101 tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg ctttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201 ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc attgccatt caggctgcgc aactgttggg aagggcgatc ggtcggggcc tcttcctat
301 tacgccagct ggcgaaaagg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atgcttggga tttttttt gggtgtgtg gctccagcta gctggggct
501 ctccgcaacta gccaaagtgc agcccacagg cagtcaatgc gtggagcatg atgtcttcgc gcttttcocg gcccccgcga ccttctcoga tgcagccag
601 gctgtccagc gcctgcaagg acatttgatg acagtgcgct cctcagtggc tgccgatgct atctcccttc tegtgtgcca gacgagtatg gatttagggc
701 cctggatcgg tttacagctc ccgcaggctc gtgacgaccc ggtgcacatc gggcccctgc gcggttcca gtgggttact ggcgataacc acaccagtta
801 cagcaggtgg gcgcgcccca acgaccagac ggtccacatc tgcggccctc tgtgctcacc ggtctcgaca gcaactgaag ctgcaccocg cgagccggcc
901 tgggaagaga agccatgcga gactgagacc cagggtttcc totgtgagt ttaactcaca gcttctgca gccctctgac ggtgaatact cgcgatctg
1001 aggtgcca catctctagt acctacaaca ccccgttcgg ggtcagtggg cgggactttc aaacgctgco ggtaggcagt tccgcccggg tggagccct
1101 tggcttggag ctggtgtgca gggcccggcc cggaaactca gagggacact gggcttggga agcgcagaga gcttggatt gcagcgtgga gaatgtggc
1201 tgtgagtact tgtgcaatag gagcacaat gaaccagat gctctgccc cagagacatg gaactgcagg ccgatggaog tctgtgtgca agactgtgg
1301 tcoaactgtg caacgaactc tgcgacatt tttgtgtcag caacgctgaa gtcccagctt cttactcctg tatgtgtgag acaggtcacc agttgctgc
1401 agacggacaac cgtgtgtgag acgtgatgca ctgtaagcag gggcccaatc catgtcccca gctctgtgtt aacaccaagg gcgcttoga atgctctgc
1501 tatgatggct atgagtggg gtagggagag tggctggagc ttctggatcc cacaagtgcg aatgttctg caatgaaact tctgtcccag cagactgtga
1601 actacogagc catctgcgct ccaggcttgc caaccaagcc gtagtgaacc ggtgtaaccg ccaagtctgc caatgaaact tctgtcccag cagactgtga
1701 cctaactct cctaactgtt gtgaaatgccc tgaaggcttc atctggacg aggttccctg atgcaaggac attgatgagt gcagtcaagg cgaatgctc
1801 accagtgaat gtcgaaactt cctgtgctcc tatgagtgtc ttctggggcc tgacacagcc ctgtctggto agattagcaa agactgtgac ccaatcctc
1901 ttaggtagga ccaacaaggaa gaggagggct ctggggagcc tocagtcagg cctctccgac gctctccgac aggtccccc tctgcaaggc atctcctc
2001 tggcgtgctc attggcactc ccaattgcag cctgtccctg gtgtgcccgc ttttggcget tctctgtcac ctgcccgaaga agcagggcgc tgcctgtgca
2101 gagctggagt acaagtgcgc atcttccgcc aaggaggtag tctgtcagca gctcaggact gatcggacgc tgcagaagtt ctaaggcgc gccagtatac
2201 tctagagtgc acaccggggg aattcctcga gcgctcgtct ctgacttggc gtaatcatgg tcatagctgt tctctgtgtg aaattgttat ccgctcaca
2301 ttccacacaa catacagacc ggaagcataa agtgaataag ctgggggtgc taatgagtga gctaactcac attaattgct ttcgctcacc tgcctcctt
2401 ccagtggga aacctgtcgt gccagctgca ttaatgaatc ggcacaacgc cgggagagag cggtttgcgt atggggcgt cttccgctc ctgctcact
2501 gactcgtcgc gctcggctgt tcggctgccc cgagcggatc cagctcactc aaaggccgta aaagccgcta atacggttat ccacagaatc aggggataac gcaggaaga
2601 actatgtgagc aaaaggccag caaaaagcca ggaaccgtaa aaaggccgta ttctgcccgt ttttccatag gctccgcccc cctgacagac atcaaaaaa
2701 tcgacgctca agtcagaggt ggcaaaaacc gacaggacta taaagatacc agtcgcttcc cctgtggaag tccctcgtgc gctctcctgt tccgaccctg
2801 ccgcttaccg gatacctgtc gcctttctc ccttgggaaa gcgtgcccgt ttctcaatgc tcacgctgta ggtatctcag ttcggtgtg gtctgtcgt
2901 caaagctggg ctgtgtgcac gaaccccccg ttoagcccga ccgctgccc ttactccggt actatcgtct tgagtccaac ccggtgaagc acgacttatc
3001 gccactggca cagcccactg gtaacaggat tagcagagcg aggtatgtag gcggtgctac agagtctctg aagtgtgtgc ctaactacg ctacactaga
3101 aggacagtat ttggtatctg cgtctctgctg aagccagtta ccttccgaaa aagagttggt agctcttgat ccggcaaaaca aaccaccgct ggtagcggtg
3201 gtttttttgt ttgcaagcag cagattacgc gcagaaaaaa aggatctcaa gaagatcctt tgatcttttc tacggggctc gacgctcagt ggaacgaaaa
3301 ctacggttaa gggattttgg tcatgagatt atcaaaaaag atcttccact agatctttt aaattaaaaa tgaagtttta aatcaatca aagtatatat
3401 gagtaaaact ggtctgacag ttaccaatgc ttaatcagtg aggcacctat ctacgcatc tgtctatttc gttcatccat agttgctgta ctccccgtc
3501 ttagataaac tagatacagg gagggttac catctggccc cagtgtgca atgataccc gagacccaag ctacccggct ccagatttat cagcaataaa
3601 ccagccagcc ggaaggcccg agcgcagaag tggtectgca actttatccg cctccatcca gctctaatat tggttccggg aagctagagt aagtgttgc
3701 ccagttaata gtttgcgcaa cgttgttggc attgtctacg gcactcgtgt gtcacgctcg tctgttggta tggcttcaat cagctccggt tcccaacgat
3801 caaggcaggt tacatgatcc cccatgttgt gcaaaaaaag ggttagctcc ttcggtcctc cgatcgttgt cagaagtaag ttggcccgag tgttatcact
3901 catggttatg gcagcactgc ataattctct tactgtcatg ccacccgtaa gatgcttttc tgtgactggt gactactcaa ccaagtcatt ctgagaatag
4001 tgtatgcccg gaccgagttg ctcttggccc gcgtcaatac gggataatac cgcgccacat agcagaactt taaaagtgtc catcattgga aaacgttctt
4101 cggggcgaaa actctcaagg atcttaccgc tgttgagatc cagttccgat taaccaactc gtgcacccaa ctgatcttca gcatctttta ctttaccagg
4201 cgtttctggg tagcaaaaaa caggaaggca aaatgcgcca aaaaagggaa taaggccgac acggaaatgt tgaatactca tactcttct tttcaatat
4301 tattgaagca tttatcaggg ttattgtctc atgagcggat acatatttga atgtatttag aaaaataaac aaataggggt tccggcaca tttccccgaa
4401 aagtgccacc tgaagtctaa gaaaccatta ttatcatgac attaacctat aaaaataggg gtatcacgag gcccttctg c

```

> RDC3400 Translated Insert Sequence

```

1 mlgiffllgvl apaslglsal aklqptsqsc vehecfalfq gpatfldasq acqrlqghlm tvrsvaadv islllsqssm dlpgwglql pggcddpvhl
101 gplrgfqwvt gdnhtsysrw arpndqtapl cgpplcvstv ateaapgepa weekpcetet qgflcefyft ascrpltvnt rdpeeahiss tyntpfvsvg
201 adfqltpvgs saaveplgle lvcrappgts eghwaweat awncsvengg ceylcnrstn eprclcprdm dlqadgrsca rpvvqscnel cehfcvsnae
301 vpgsysmce tgyqlaadgh rcedvddckq gnpncpqlcv ntkggfecfc ydgyelvdge cvelldpcfg sncefqcqv sptdyrcica pgfapkpdep
401 hkcmfCnet scpadcdpns ptvcecepgef ildegsvctd idecsqgecf tsercnfpgs yecicgpdta lagqiskdcd pipvredtke eegsgeppvs
501 ptpgsptgpp sarpvhsgvl igisiaslsl vvallallch lrkkqgaara eleykcasa kevvllqhvr drtlqkf

```