

R&D SYSTEMS[®] *h*Fucosyltransferase 7 VersaClone cDNA

a biotechne[®] brand

Catalog Number: RDC2158

Specifications:

Gene:	<i>h</i> FUT7
Accession:	NP_004470
Insert size:	1042bp
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*Fucosyltransferase 7 cDNA Plasmid

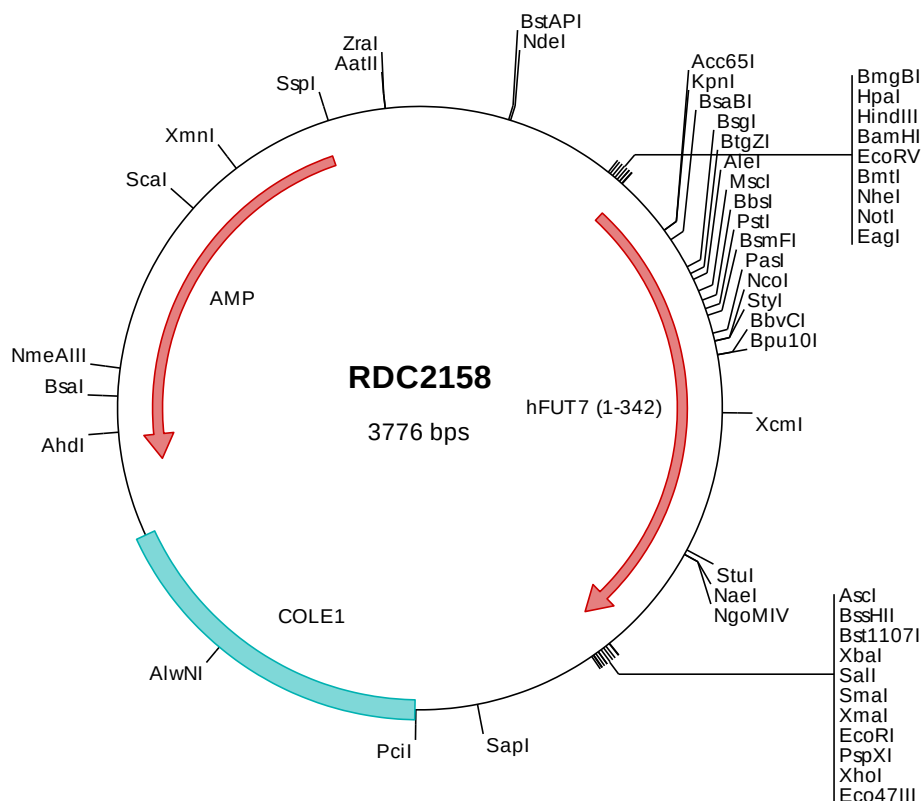
FUT7 fucosyltransferase 7

[*Homo sapiens* (human)]

Also known as: FucT-VII

Summary:

FUT7 is a Golgi stack membrane protein. It plays an exclusive role for the biosynthesis of sialy Lewis X epitope that serves as a ligand in the E-selectin and P-selectin mediated adhesion of leukocytes to activated endothelium or platelets.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC2158 Plasmid DNA Sequence

```

1   tcgcgcgttt  cggatgatgac  ggtgaaaacc  tctgacacat  gcagctcccc  gagacggtca  cagcttgctc  gtaagcggat  gccgggagca  gacaagcccg
101  tcagggcgcg  tcagcgggtg  ttggcgggtg  tcggggctgg  ctttaactatg  cggcatcaga  gcagattgta  ctgagagtgc  accatatgcg  gtgtgaaata
201  ccgcacacgat  gcgtaaggag  aaaataccgc  atcaggcgcc  attcgccatt  caggctgcgc  aactgttggg  aagggcgatc  ggtgcgggcc  tcttcctat
301  tacgccagct  ggcgaaagg  ggatgtgtg  caaggcgatt  aagttgggta  acgccagggt  tttcccagtc  acgacgttgt  aaaacgacg  ccagtgaatt
401  ggagacgtgt  taacaagctt  ggatccgata  tcgctagcgc  ggccgccaac  atgaataatg  ctgggcacgg  ccccaaccgg  aggtgcgag  gcttgggggt
501  cctggccggg  gtggtcttgc  tcgctgcctc  ctggctcctg  tggctgtctg  ggtcagcccc  tcggggtacc  cgggcacccc  agccacgat  caccatcctt
601  gtctggcaact  ggccttcac  tgaccagccc  ccagagctgc  ccagcgacac  ctgcacccgc  tacggcatcg  cccgtgccca  cctgagtgc  aaccgaagcc
701  tgctggccag  cgcgcagcgc  gtggtcttcc  accacgcgga  gctgcagacc  cggcggtccc  acctgcccct  ggcccagcga  ccgcgagggc  agccctgggt
801  gtgggcctcc  atggagtctc  ctgaccacac  ccacggcctc  agccacctcc  gaggcattct  caactgggtg  ctgagctacc  ggcgcgactc  ggacattctt
901  gtgcctatg  gccgctgga  gcccaactgg  gggccctcgc  caccgctgcc  agccaagagc  aggttgcccg  cctgggtggg  cagcaacttc  caggagcggc
1001 agctgcgtgc  cgcgcagcgc  gtggtcttcc  accacgcgga  gctgcagacc  cggcggtccc  acctgcccct  ggcccagcga  ccgcgagggc  agccctgggt
1101 caccgtggcc  cagtaccgct  tctacctgtc  ctttgagaac  totcagcacc  gcgactacat  tacggagaaa  ttctggcgca  acgcactggg  ggctggcact
1201 gtgccagtgg  tgctggggcc  cccacgggcc  acctatgagg  ccttcgtgcc  ggtgacgcgc  ttctgtcatg  tggatgactt  tggctcagcc  cgagagctgg
1301 cgtgcttctc  cactggcatg  aatgagagcc  gataccaacg  cttcttttgc  ttgcgtgaca  ggctccgctg  gcgactgttc  accgactggc  gggaacgttt
1401 ctgtgccatc  tgtgaccgct  acccacacct  accccgcagc  caagtctatg  aggaccttga  gggttggttt  caggcataaa  ggcgcgccag  tatactctag
1501 agtcgacacc  cggggaattc  ctgcagcgtc  cgtctctagc  ttggcgtaat  catggtcata  gctgtttcct  gtgtgaaatt  gttatccgct  cacaattcca
1601 cacaacatac  gagcgggaag  cataaagtgt  aaagcctggg  gtgcctaatt  agtgagctaa  ctacatttaa  ttgctttgcg  ctactgccc  gctttccagt
1701 cgggaaacct  gtcgtgcag  ctgcattaat  gaatcgcca  acgcgcggg  agaggcggtt  tgcgtattgg  gcgctcttc  gcttctcgc  tcaactgactc
1801 gctgcgctcg  gtcgttcggc  tgcggcgagc  ggtatcagct  cactcaaagg  cggtaatacg  gttatccaca  gaatcagggg  ataacgcagg  aaagaacatg
1901 tgagcaaaag  gccagcaaaa  gcccaggaac  cgtaaaaagg  ccgcgttgct  gctcttttcc  cataggtctc  gcccccctga  cgagcatcac  aaaaatcgac
2001 gctcaagtca  gaggtggcga  aacccgacag  gactataaag  ataccaggcg  ttccccctg  gaagctccct  cgtgcgctct  cctgttccga  cctcgcgctg
2101 taccggatac  ctgctccgct  ttctcccttc  gggaagcgtg  gcgctttctc  cggttaactg  ctgtaggtat  ctcagttcgg  ttaggtcgt  tcgctccaag
2201 ctgggctgtg  tgcaacgacc  cccccttcag  cccgaccgct  gcgcttcttc  gctgaactat  cgtcttgagt  ccaacccggg  aagacacgac  ttatcgccac
2301 tggcagcagc  cactggtaac  aggattagca  gagcgaggtg  tgtaggcggt  gctacagagt  tcttgaagtg  gtggcctaac  tacggctaca  ctagaaggac
2401 agtatttggg  atctgcgctc  gctgaaagcc  agttaccttc  ggaaaaagag  ttggtagctc  ttgatccggc  aaacaaacca  ccgctggtag  cgggtgtttt
2501 tttgtttgca  agcagcagat  tacgcgcaga  aaaaaaggat  ctcaagaaga  tcctttgatc  ttttctacgg  ggtctgacgc  tcagtggaac  gaaaaactcac
2601 gttaagggat  tttgtctatg  agattatcaa  aaaggatctt  cacctagatc  cttttaaatt  aaaaatgaag  ttttaaatca  atctaaagta  tatatgagta
2701 aacttggctc  gacagttacc  aatgcttaat  cagtggagca  cctatctcag  cgtctgtctc  atttcgttca  tccatagttg  cctgactccc  gctcgtgtag
2801 ataactacga  tacgggaggg  cttaccatct  ggcgccagtg  ctgcaatgat  accgcgagac  ccacgctcac  cggctccaga  tttatcagca  ataaaccagc
2901 cagccggaag  ggccgagcgc  agaagtgttc  ctgcaacttt  atccgcctcc  atccagctta  ttaattgttg  ccgggaagct  agagtaagta  gttcgcaggt
3001 taatagtgtg  cgcaacgttg  ttgccattgc  tacaggcatc  gtggtgtcac  gctcgtcgtt  tggtaggctc  tcattcagct  ccggttccca  acgatcaagg
3101 cgagttacat  gatcccccac  gttgtgcaaa  aaagcggtta  gctccttcgg  tcctccgac  gttgtcagaa  gtaagttggc  cgcagtgtta  tcactcatgg
3201 ttatggcagc  actgcataat  tctcttactg  tcatgccatc  cgtaagatgc  ttttctgtga  ctgggtgagta  ctcaaccaag  tcattctgag  aatagtgtat
3301 tgagcgacgc  agttgctctt  gcccgcgctc  aatacgggat  aataccgcgc  cacatagcag  aactttaaaa  gtgctcatca  ttggaaaaac  ttcttcgggg
3401 cgaaaactct  caaggatctt  accgctgttg  agatccagtt  cgatgtaacc  cactcgtgca  cccaactgat  cttcagcatc  ttttactttc  accagcgttt
3501 ctgggtgagc  aaaaacagga  aggcataaat  ccgcaaaaaa  gggaataaag  gcgacacgga  aatgttgaat  actcatactc  ttcttttttc  aatattattg
3601 aagcatttat  cagggttatt  gtctcatgag  cggatacata  tttgaatgta  tttagaaaaa  taaacaaata  ggggttccgc  gcacatttcc  ccgaaaagtg
3701 ccactcgacg  tctaagaaac  cattattatc  atgacattaa  cctataaaaa  taggcgtatc  acgaggccct  ttcgtc

```

> RDC2158 Translated Insert Sequence

```

1   mnaghgptr  rrlrglvlag  vallaalwll  wllgsaprgt  papgptitil  vwhwftdqp  pelpsdtctr  ygiarchlsa  nrsllasada  vvfhhrelqt
101  rrshlplagr  prggpwwwas  mespshtghl  shrlgifnvw  lsyrdsdif  vpygrlephw  gpspplpaks  rvaawvsnf  qerqlrarly  rqlaphlrvd
201  vfgrangrpl  casclvptva  qyrfylsfen  sqhrdyitek  fwrnalvagt  vpvvlgppra  tyeafvpada  fvhvddfgsa  relaafltgm  nesyrqfffa
301  wrdlrvrlf  tdwrerfcai  cdryphlprs  qvyedlegwf  qa

```