

## Specifications:

|                |                  |
|----------------|------------------|
| Gene:          | hFUT8            |
| Accession:     | NP_835368.1      |
| Insert size:   | 1741bp           |
| 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. |

## hFUT8 cDNA Plasmid

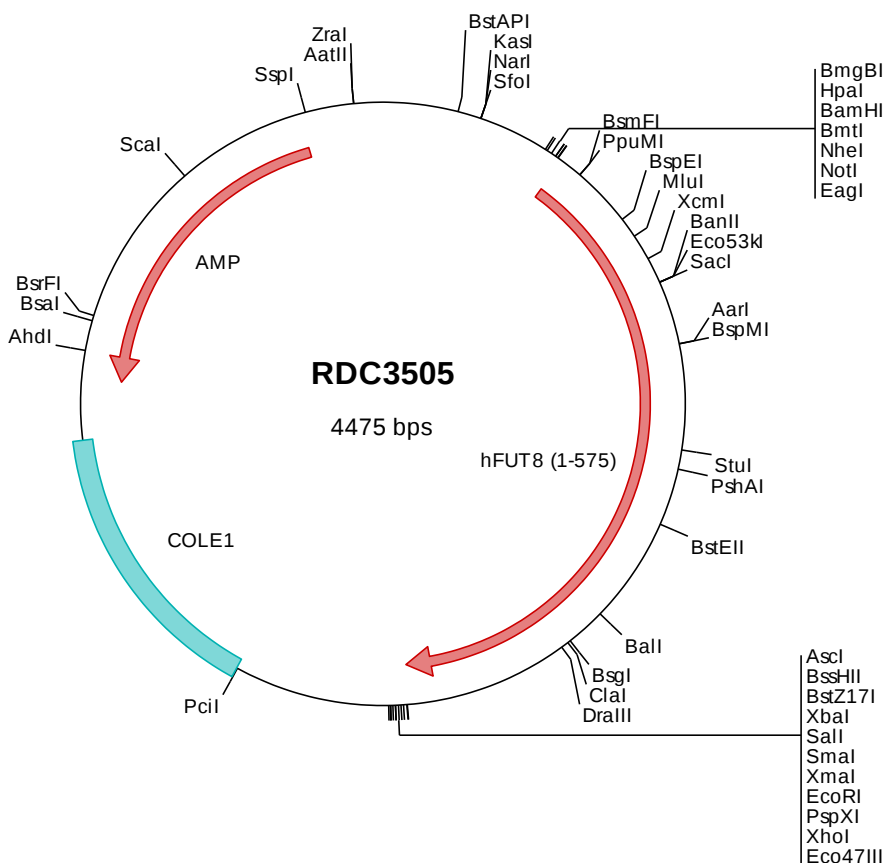
### FUT8 fucosyltransferase 8

[ *Homo sapiens* (human) ]

Also known as: CDGF; CDGF1

### Summary:

FUT8 is an enzyme belonging to the family of fucosyltransferases. FUT8 catalyzes the transfer of fucose from GDP-fucose to N-linked type complex glycopeptides. FUT8 is distinct from other fucosyltransferases which catalyze alpha1-2, alpha1-3, and alpha1-4 fucose addition. The expression of FUT8 may contribute to the malignancy of cancer cells and to their invasive and metastatic capabilities. Alternative splicing results in multiple transcript variants.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

## > RDC3505 Plasmid DNA Sequence

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1   tcgcgcgcttt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacgggtc cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg ctttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201  ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaagg ggatgtgctg caaggcgatt aagttgggta agccagggtt tttcccgatc acgacgttgt aaaacgacgg ccagtgaatt
401  ggagacgtgt taacaagctt ggtaccgata tcgctagcgc ggccgcacc atgcggccat ggactgggtc ctggcgttgg attatgtoca ttctttttgc
501  ctgggggac ttgctgtttt atataggttg tcacttggta cgagataatg accatctcga tcactctago cgagaactgt ccaagattct ggcaaaagctt
601  gaacgcttaa aacaacagaa tgaagacttg aggcgaatgg ccgaatctct ccggatacca gaaggcccta ttgatcaggg gccagctata ggaagagtac
701  gcgtttttaga agagcagctt gttaaggcca aagaacagat tgaaaattac aagaaaacaga ccagaaatgg tctggggaag gatcatgaaa tcctgaggag
801  gaggattgaa aatggagcta aagagctctg gtttttccta cagagtgaat tgaagaaatt aaagaaacta gaaggaaaatg aactccaaag acatgcagat
901  gaatttcttt tggatttagg acatcatgaa aggctctata tgaaggatct atactaccte agtcagacag atggagcagg tgattggcgg gaaaaagagg
1001 ccaaagatct gacagaactg gttccgggga gaataacata tcttcagaat cccaaggact gcagcaaaagc caaaaagctg gtgtgtaata tcaacaaagg
1101 ctgttgctat ggctgtcagc tccatcatgt ggtctactgc ttcatgattg catatggcac ccagcgaaaca ctcatcttgg aatctcagaa ttggcgctat
1201 gctactgggtg gatgggagac tgtatttagg cctgtaagtg agacatgcac agacagatct ggcatctcca ctggacactg gtcaggtgaa gtgaaggaca
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1601 tgcatgttga agaaacatttt cagctctctg gcaagtgac gcaagtggac aaaaaaagag tgtatttggc cacagatgac ccttctttat taaaaggagc
1701 aaaaacaaag taccccaatt atgaatttat tagtgataac tctatttctc ggtcagctgg actgcacaat cgatacacag aaaattcaact tcgtggagtg
1801 atcctggata tcgattttct ctctcaggca gaactctact tgttgaactt ttctcccg gtctgtcgag ttgcttatga aattatgcaa acactacatc
1901 ctgatgtctc tgcaaaacttc cattctttag atgacatcta ctatttttgg ggccagaagt cccaacaatc aattgccatt tatgtctaac aaccccgaac
2001 tgcatgatgaa attcccatgg aacctggaga tatcatttgt gtgctgtgaa atcattggga tggtctattct aaaggtgtca acaggaaaatt gggaaggacg
2101 ggcctatata ctcctcaaaa agctcgagag aagatagaaa cggtcaagta ccccacatat cctgaggctg agaaaataag gcgcgccagt atactctaga
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2301 acaacatacgc agccggaagc ataaagtgtg aagcctgtgg tgccctaata gtgagctaac tcacattaat tgcggttgcg tcactgcctc ctttccagtc
2401 gggaacacctg tcgttgccagc tgcaattaat aatcggccaa cgccggggga gagggcggtt gcgtatttgg cgctcttccg cttctcgct cactgactcg
2501 tcgcgctcgg tcgttccggt gcggcgagcg gtatcagctc actcaaaagc ggttaactacg ttatccacag aatcagggga taacgcagga aagaacatgt
2601 gagcaaaaag ccagcaaaaag gccaggaaac gtaaaaagcg cgcagttggc gcgttttttc ataggctcgc ccccctgac gagcatcaca aaaatcgagc
2701 ctcaagtcag aggttgcgaa accgcagcag actataaaga tcacagcgct ttccccctgg aaagctccct tcgcgctctc gtgtccgac cctgcgcgtt
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3101 gtattttgta tctgcgctct gctgaagcca gttaaccttc gaaaaagagt tggtagctct tgatccggca aacaaaccac cgctggtagc ggtggttttt
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3601 agccggaagg gccgagcgca gaagtgtgtc tgcaacttta tccgctctca tccagctctat taattgttgc cggggaagcta gagtaagtag ttcgccagtt
3701 aatagtttgc gcaacgttgt tgccattgct acaggcatcg tggtgtcacg ctcgtcgctt ggtatggctt cattcagctc cggttcccaa cgatcaaggc
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4101 gaaaactctc aaggatctta ccgctgttga gatccagttc gatgtaaccc actcgtgcac ccaactgato ttcagcatct tttactttca ccagcgtttc
4201 tggttgagca aaaacaggaa ggcaaaatgc cgcaaaaaag ggaataaggg cgacacggaa atgttgaata ctcatactct tcctttttca atattattga
4301 agcattttatc agggttattg tctcatgagc ggatacatat ttgaatgtat ttagaaaaat aaacaaatag gggttccgcg cacatttccc cgaaaagtcg
4401 cacctgacgt ctaagaaacc attattatca tgacattaac ctataaaaaat aggcgtagca cgaggccctt tcgtc

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## > RDC3505 Translated Insert Sequence

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1   mrpwtgswrw imlilfawgt llfyigghlv rdndhpdhss relskilakl erlkqnedl rmaeslrip egpidggpai grvrvleeql vkakeqieny
101  kkqtrnglglg dheilrrrie ngakelwffl qselkkklknl egnelgrhad eflldlghe rsimtdlyyl sqtdgagdw ekeakdltel vqrritylqn
201  pkcdskakkkl vcninkgcgy gcqlhhvvyv fmiaygtqrt lilesqnwry atggwetvfr pvsetctdrs gistghwsge vkdknvqvve lpivdslhpr
301  ppylplavpe dladrlvrhv gdpavwvwsq fvkylirpqp wlekeieeat kklglfkhpvi gvhvrrtdkv gteaafhpie eymvhveehf qlarrmqvd
401  kkrvlylatdd psllkeaktk ypniefisdn siswsaglhv rytenslrgv ildihflsqd dflvctfssq vcrvayeimq tlhpdasanf hslldiyyfg
501  gqnahnqiai yahqprtade ipmepggiig vagnhwdgys kgvnrklgrt glypsykvre kietvkypty peake

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