*h*Frizzled-6 VersaClone cDNA

Catalog Number: RDC0121

Specifications:

Gene:	*h*FZD6
Accession:	AAD41637
Insert size:	2134bp
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.

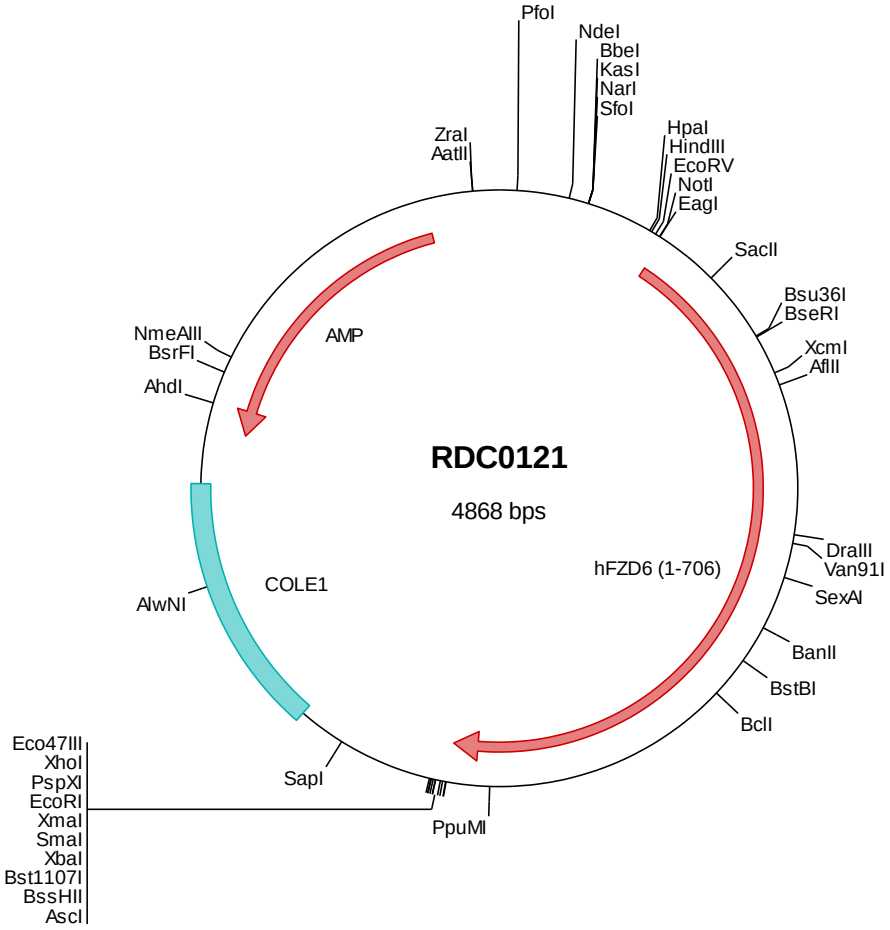
*h*Frizzled-6 cDNA Plasmid

FZD6 frizzled family receptor 6 [*Homo sapiens*]

Also known as: FZ6; FZ-6; HFZ6; NDNC10

Summary:

FZD6 is a 7-transmembrane glycoprotein of the Frizzled family within the G protein-coupled receptor superfamily. FZD6, unlike other family members, does not contain a C-terminal PDZ domain-binding motif. It functions as a negative regulator of the canonical Wnt/beta-catenin signaling cascade, thereby inhibiting the processes that trigger oncogenic transformation, cell proliferation, and inhibition of apoptosis. Activation of Wnt4/FZD6 signaling through a "beta-catenin-independent" pathway plays a role in proliferation and survival of the pituitary adenoma cells.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC0121 Plasmid DNA Sequence

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   1  tcgcgcgttt cggtgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
 101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
 401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atggagatgt ttacattttt gttgacgtgt atttttctac ccctcctaag
 501  agggcacagt ctcttcacct gtgaaccaat tactgttccc agatgtatga aaatggccta caacatgacg tttttcccta atctgatggg tcattatgac
 601  cagagtattg ccgcggtgga aatggagcat tttcttcctc tcgcaaatct ggaatgttca ccaaacattg aaactttcct ctgcaaagca tttgtaccaa
 701  cctgcataga acaaattcat gtggttccac cttgtcgtaa actttgtgag aaagtatatt ctgattgcaa aaaattaatt gacactttg ggatccgatg
 801  gcctgaggag cttgaatgtg acagattaca atactgtgat gagactgttc ctgtaacttt tgatccacac acagaatttc ttggtcctca gaagaaaaca
 901  gaacaagtcc aaagagacat tggattttgg tgtccaaggc atcttaagac ttctgggggа caaggatata agtttctggg aattgaccag tgtgcgcctc
1001  catgccccaa catgtatttt aaaagtgatg agctagagtt tgcaaaaagt tttattggaa cagtttcaat attttgtctt tgtgcaactc tgttcacatt
1101  ccttactttt ttaattgatg ttagaagatt cagataccca gagagaccaa ttatatatta ctctgtctgt tacagcattg tatctcttat gtacttcatt
1201  ggatttttgc tgggcgatag cacagcctgc aataaggcag atgagaagct agaacttggt gacactgttg tcctaggctc tcaaaataag gcttgcaccg
1301  ttttgttcat gcttttgtat tttttcacaa tggctggcac tgtgtggtgg gtgattctta ccattacttg gttcttagct gcaggaagaa aatggagttg
1401  tgaagccatc gagcaaaaag cagtgtggtt tcatgctgtt gcatggggaa caccaggttt cctgactgtt atgcttcttg ctctgaacaa agttgaagga
1501  gacaacatta gtggagtttg ctttgttggc ctttatgacc tggatgcttc tcgctacttt gtactcttgc cactgtgcct ttgtgtgttt gttgggctct
1601  ctcttctttt agctggcatt atttccttaa atcatgttcg acaagtcata caacatgatg gccggaacca agaaaaacta aagaaattta tgattcgaat
1701  tggagtcttc agcggcttgt atcttgtgcc attagtgaca cttctcggat gttacgtcta tgagcaagtg aacaggatta cctgggagat aacttgggtc
1801  tctgatcatt gtcgtcagta ccatatccca tgtccttatc aggcaaaagc aaaagctcga ccagaattgg ctttatttat gataaaatac ctgatgacat
1901  taattgttgg catctctgct gtcttctggg ttggaagcaa aaagacatgc acagaatggg ctgggttttt taaacgaaat cgcaagagag atccaatcag
2001  tgaaagtcga agagtactac aggaatcatg tgagtttttc ttaaagcaca attctaaagt taaacacaaa aagaagcact ataaaccaag ttcacacaag
2101  ctgaaggtca tttccaaatc catgggaacc agcacaggag ctacagcaaa tcatggcact tctgcagtag caattactag ccatgattac ctaggacaag
2201  aaactttgac agaaatccaa acctcaccag aaacatcaat gagagaggtg aaagcggacg gagctagcac ccccaggtta agagaacagg actgtggtga
2301  acctgcctcg ccagcagcat ccatctccag actctctggg gaacaggtcg acgggaaggg ccaggcaggc agtgtatctg aaagtgcgcg gagtgaagga
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2501  catctctgct tgttcaccca gtttcaggag tgagaaaaga gcagggaggt ggttgtcatt cagatactta aaggcgcgcc agtatactct agagtcgaca
2601  cccggggaat tcctcgagcg ctcgtctcta gcttggcgta atcatggtca tagctgtttc ctgtgtgaaa ttgttatccg ctcacaattc cacacaacat
2701  acgagccgga agcataaagt gtaaagcctg gggtgcctaa tgagtgagct aactcacatt aattgcgttg cgctcactgc ccgctttcca gtcgggaaac
2801  ctgtcgtgcc agctgcatta atgaatcggc caacgcgcgg ggagaggcgg tttgcgtatt gggcgctctt ccgcttcctc gctcactgac tcgctgcgct
2901  cggtcgttcg gctgcggcga gcggtatcag ctcactcaaa ggcggtaata cggttatcca cagaatcagg ggataacgca ggaaagaaca tgtgagcaaa
3001  aggccagcaa aaggccagga accgtaaaaa ggccgcgttg ctggcgtttt tccataggct ccgcccccct gacgagcatc acaaaaatcg acgctcaagt
3101  cagaggtggc gaaacccgac aggactataa agataccagg cgtttccccc tggaagctcc ctcgtgcgct ctcctgttcc gaccctgccg cttaccggat
3201  acctgtccgc ctttctccct tcgggaagcg tggcgctttc tcaatgctca cgctgtaggt atctcagttc ggtgtaggtc gttcgctcca agctgggctg
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3801  ctgacagtta ccaatgctta atcagtgagg cacctatctc agcgatctgt ctatttcgtt catccatagt tgcctgactc cccgtcgtgt agataactac
3901  gatacgggag ggcttaccat ctggccccag tgctgcaatg ataccgcgag acccacgctc accggctcca gatttatcag caataaacca gccagccgga
4001  agggccgagc gcagaagtgg tcctgcaact ttatccgcct ccatccagtc tattaattgt tgccgggaag ctagagtaag tagttcgcca gttaatagtt
4101  tgcgcaacgt tgttgccatt gctacaggca tcgtggtgtc acgctcgtcg tttggtatgg cttcattcag ctccggttcc caacgatcaa ggcgagttac
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4301  gcactgcata attctcttac tgtcatgcca tccgtaagat gcttttctgt gactggtgag tactcaacca agtcattctg agaatagtgt atgcggcgac
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4701  atcagggtta ttgtctcatg agcggataca tatttgaatg tatttagaaa aataaacaaa taggggttcc gcgcacattt ccccgaaaag tgccacctga
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> RDC0121 Translated Insert Sequence

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 201  figtvsifcl catlftfltf lidvrrfryp erpiiyysvc ysivslmyfi gfllgdstac nkadeklelg dtvvlgsqnk actvlfmlly fftmagtvww
 301  viltitwfla agrkwsceai eqkavwfhav awgtpgfltv mllalnkveg dnisgvcfvg lydldasryf vllplclcvf vglslllagi islnhvrqvi
 401  qhdgrnqekl kkfmirigvf sglylvplvt llgcyvyeqv nritweitwv sdhcrqyhip cpyqakakar pelalfmiky lmtlivgisa vfwvgskktc
 501  tewagffkrn rkrdpisesr rvlqesceff lkhnskvkhk kkhykpsshk lkvisksmgt stgatanhgt savaitshdy lgqetlteiq tspetsmrev
 601  kadgastprl reqdcgepas paasisrlsg eqvdgkgqag svsesarseg rispksditd tglaqsnnlq vpsssepssl kgstsllvhp vsgvrkeqgg
 701  gchsdt
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