

## Specifications:

Gene:	hFZD4
Accession:	NP_036325
Insert size:	1627bp
Concentration:	10µg at 0.2µg/µL

## hFrizzled-4 cDNA Plasmid

### FZD4 frizzled family receptor 4 [ *Homo sapiens* ]

**Also known as:** EVR1; FEVR; Fz-4; FzE4; GPCR; CD344; FZD4S

#### Summary:

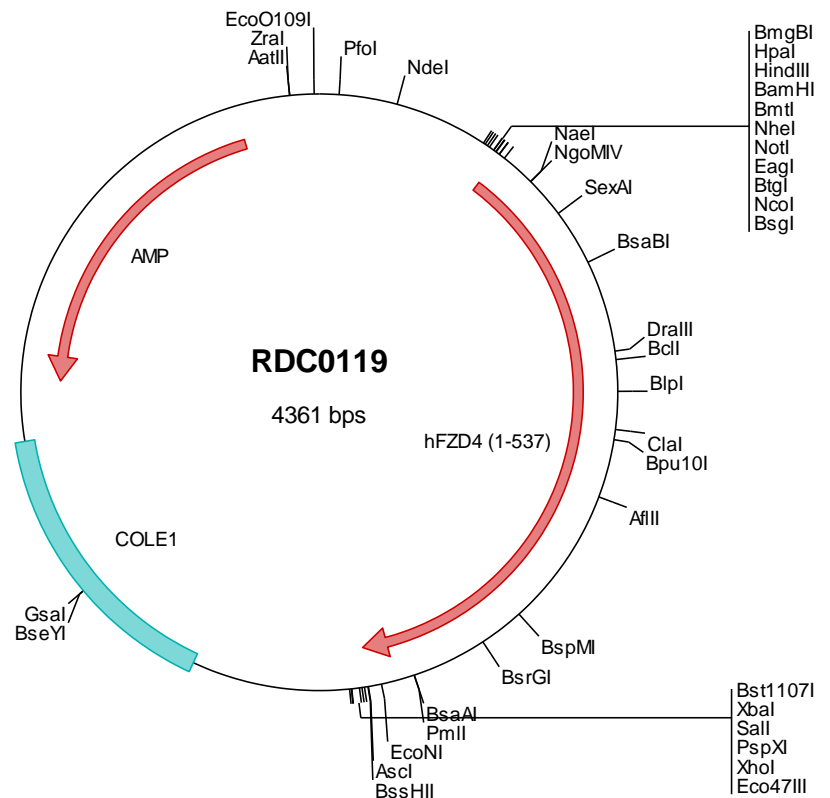
FZD4, also known as CD344, is a 7-transmembrane glycoprotein of the Frizzled family within the G protein-coupled receptor superfamily. FZD4 expression has been found in many tissues, including mouse ovary, where it influences corpus luteum vasculogenesis and is necessary for fertility. Frizzled proteins function as receptors for Wnt proteins and can activate canonical Wnt/beta catenin signaling as well as planar cell polarity and calcium flux pathways. FZD4 is particularly important in angiogenic Wnt pathway signaling. It is unusual in binding a non-wnt ligand, Norrin, in addition to binding Wnt ligands. Norrin binds the FZD4 cysteine-rich domain (CRD), activates Wnt signaling pathways and uses LRP5/6 as coreceptors.

## 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



> RDC0119 Plasmid DNA Sequence

1 tcgctgcttt cggatgatgac ggtgaaaacc tetgacacat gcagctccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagccc
101 tcaggggcgc tcagcgggtg ttggcgggtg teggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatattgc gttgtaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgatc ggtcgggcc tcttcgctat
301 taaggcagct ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta acgcccagggt ttcccgctc acgacgtgtg aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagcctt ggatccgata tcgctagcgc ggccgccacc atggcatggc ggggtgcagg gccgagcgtc ccggggggcg ccggggggcgt
501 cggttcaagt ttgggggttc tctcagatt gctcgtgctc ctggggcgcg ccgggggctt cggggacgag gaagagcggc gctgcgacct caatccgctc
601 tccatgtgac agaacctcgg ctacaactgt accaagatgc ccaactcgtt tgggacgag ctgcagacgg accccagct gcagctgaca actttcacac
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2001 aaagagagat aagagaggaa atggttgggt gaagcctgga aaaggcagtg agactgtggt ataaaaggcg gccagtatac tctagatcag acaccgggg
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2301 gccagctgca ttaatgaatc ggccaaacgc cggggagagg cgtgttgcgt atggggcctt attgagcctg ctcccgcttc ctcgctcact gactcgtgc
2401 tcgctcgcg cgagcgtgat cagctcactc aaaggcgcta atacggttat ccacagaatc aggggataac gcaggaaaaga acatgtgagc aaaaggccag
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4301 gaaaccatta ttatcatgac attaacctat aaaaataggc gtatcacag gcctttctg c

> RDC0119 Translated Insert Sequence

1 mawrgagpsv pgpagggvls lg1lllq1lll lgpargfdg eerredpiri smcqnlgynv tkmpnlvghe lqtdaelqlt tftpliyygc ssqlqfflcs
101 vyvpmcteki nipigpcgcm clsvkrrcep vlkefgfawp eslncskfpp qndnhmcmc gpgdeevlp hktpiqggee chsvgtnsdq yiwvkrslnc
201 vlkcydagl ysrakeftd iwmavwaslc fistaftvlt flidssrfys perpiifilm cyniysiayi vrltvgreri scdfeeaep vliqeglkn
301 gcaifllmy ffgmassiwn viltltwfla aglkwgheal emhssyfhia awaipavkti vilimrlvda deltglycyg nqnlaldtfg vvaplftylv
401 igtlfiaagl valfkiraql qkdgtktdkl erlmvkigvf svlytvpac viacyfyeis nwalfrysad dsnmavemlk ifmsllvgit sgmwiwakt
501 lhtwqksnr lvnsgkvkre krgngwvkpg kgsctv