

Product datasheet for **RR212391**

Fzd4 (NM_022623) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fzd4 (NM_022623) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fzd4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR212391 representing NM_022623
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTTGGCAGGGCACAGGGCCAAGCGTCCGGGGATGCCTGGAGGCGTCAGGCTCAGGCTGGGGCTGC
 TGCTGCTGCAGTTGCTCCTGCTCCAGCGCCCGCCCTGGGGTTCGGGGACGAGGAGGAGCGCGTTGCGA
 CCCCATCCGCATCGCCATGTGCCAGAACCTCGGCTACAACGTGACCAAGATGCCAACTTAGTGGGACAC
 GAGCTGCAGACAGACGCGGAGCTGCAGCTGACAACCTTTCACGCCGCTCATCCAGTACGGCTGCTCCAGCC
 AGCTGCAGTTCTTCTTTGTTTCGGTTTATGTGCCAATGTGCACAGAGAAGATCAACATCCCATCGGCC
 GTGCGGTGGCATGTGCTTTTCAGTCAAGAGACGATGTGAACCACTCTGAAAGAATTTGGTTTGCCTGG
 CCGGACAGCCTGAACTGCAGCAAGTTCCACCCCAAGACACCACAACCATGTGCATGGAAGGACCAG
 GTGACGAAGAGGTACCCTTGCCCAAAAACCTCCATCCAGCCGGGGGAAGAGTCCCACTCCGTGGGAAC
 CAATTCGATCAGTACATCTGGGTGAAAAGGAGCCTGAACTGTGTCTCAAGTGTGGCTACGATGCTGGC
 TTGTACAGCCGCTCAGCTAAGGAGTTCACGGATATTTGGATGGCCGTGTGGGCCAGCCTCTGCTTCACT
 CTACCACCTTCACTGTGCTGACCTTCTGATTGATTCTGTCAGGTTTTCTTACCCTGAGCGCCCATCAT
 ATTCCTCAGTATGTGCTATAATATTTATAGCATTGCTTATATTGTTTCGGCTTACTGTAGGCCGGAAAGG
 ATATCCTGTGATTTTGAAGAGCGCGCAGAACCCGTTTCATCCAAGAGGGACTTAAGAACACAGGATGTG
 CAATAATTTTCTGTGATGTACTTTTTTGAATGGCCAGCTCCATTTGGTGGTTATTCTGACACTCAC
 TTGGTTTTTGGCAGCCGACTCAAGTGGGGTACGAAGCCATTGAAATGCACAGTTCTTATTTCCACATC
 GCAGCCTGGGCTATCCCTGCCGTGAAAACCAAGCCTAGATGCCCTCACCGCTTTGTGGTGGCACCTCTT
 TGACTGGCCTGTGCTATGTGCGGAACCAAGCCTAGATGCCCTCACCGCTTTGTGGTGGCACCTCTT
 TACCTATTTGGTATTGGAACCTATTCAATTGCTGCAGGCTTGGTGGCCCTCTTCAAAATTCGGTCAAA
 TTTCAAAAAGATGGGACCAAGACAGACAAGTTGAAAAGGCTAATGGTCAAGATCGGGTCTTCTCGGTCC
 TGTACACGGTTCTGCGACCTGTGTGATTGCCTGTTATTTCTATGAAATCTCAAAGTGGGACTCTTTG
 GTATTCTGCAGATGACTCAAACATGGCAGTTGAAATGTTGAAAATTTTTATGCTTTGCTCGTGGGCATC
 ACTTCAGGCATGTGGATTTGGTCTGCCAAAACCTTTCACACGTGGCAAAAATGTTCTAACCGATTGGTGA
 ATTCTGGGAAGGTAAGAGAGAGAAGAGGGGGAATGGTTGGGTGAAGCCAGGAAAGGCAACGAACTGT
 GGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR212391 representing NM_022623
 Red=Cloning site Green=Tags(s)

MAWQGTGPSVRGMPGGVRLRLGLLLLQLLLLQRPALGFGDEEERRCDPIRIAMCQNLGYNVTKMPNLVGH
 ELQTDDELQTLTFTPLIQYGCSSQLQFFLCSVYVPMCTEKINIPGCGGMCLSVKRRCEPVLKEFGFAW
 PDSLNCSEKFPQNDHNHMCMEGPGDEEVPLPHKTPIQPGECHSVGTNSDQYIWKRLNCLVKCYDAG
 LYSRSAFEFTDIWMAVWASLCFISTFTVLTFLIDSSRFSPYPERPIIFLSMCYNIYSIAYIVRLTVGRER
 ISCDFEAAAEPVLIQEGLKNTGCAIIFLLMYFFGMASIIWVILTLTWFLAAGLKWGHEAIEHSSYFHI
 AAWAIPAVKTIVILIMRLVDADELTLGLCYVGNQSLDALTGFVVAPLFTYLVIIGTLFIAAGLVALFKIRSN
 LQKDGTKTDKLERLMVKIGVFSVLYTVPATCVIACYFYEISNWFVFRYSADDSNMAVEMLKIFMSLLVGI
 TSGMWIWSAKTLHTWQKSNRLVNSGKVKREKRGNGWVKPGKGNETVV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

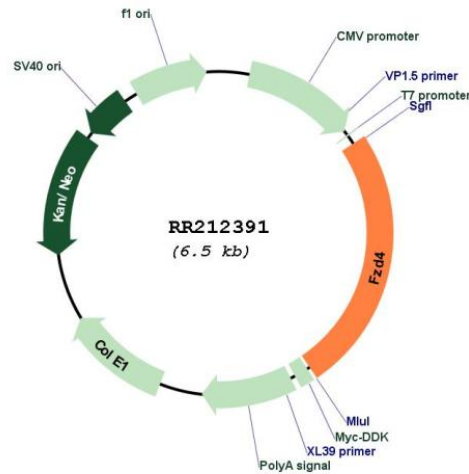
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN:	NM_022623
ORF Size:	1614 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_022623.2](#), [NP_072145.1](#)

RefSeq Size: 6867 bp

RefSeq ORF: 1617 bp

Locus ID: 64558

UniProt ID: [Q9QZH0](#)

Cytogenetics: 1q32

MW: 60.4 kDa

Gene Summary: putative Wnt receptor; may play a role in the Wnt signaling pathway [RGD, Feb 2006]