

Product datasheet for **MR227013**

Fzd6 (NM_008056) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fzd6 (NM_008056) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fzd6
Synonyms:	Fz6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR227013 representing NM_008056
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAAGGTCCCGTTTCTGTTGGCGTGCATTCTTCTGCCCTCGTAAGAGGACACAGCCTTTTACCT
GTGAGCCAATCACCGTCCAGATGTATGAAAATGACTTACAACATGACGTTCTCCCTAACCTGATGGG
TCATTATGACCAGGGGATCGCTGCTGTGAAAATGGGGCACTTTCTGCATCTTGCAATCTAGAATGTTCA
CCAAACATTGAAATGTTCTTTGCCAAGCTTTTATACCACTGCACAGAGCAAATTCATGTAGTCTAC
CCTGTGCGAAATGTGTGAGAAAATAGTTTCTGATTGCAAAAATAATGGACACTTTTGGCATCCGATG
GCCTGAAGAACTGAATGTAACAGATTGCCACACTGTGATGACTGTTCTGTAACCTTCTCATCCACAC
ACAGAGCTTTCTGGCCACAGAAGAAATCAGATCAAGTCCAAGAGACATTGGATTTTGGTGTCAAAGC
ACCTTAGGACTTCGGGGACCAAGGCTATAGTTTCTGGGAATTGAACAGTGTGCCCTCCGTGCCCAA
TATGTATTTAAAAGTGTGAAGTACACTTTGCCAAAAGTTTCATAGGAATAGTTTCAATATTTTGTCTT
TGTGCAACTCTGTTACGTTCTTACATTTTAAATTGACGTTAGACGATTAGATACCCAGAGAGACCAA
TTATCTATTACTCTGTCTGCTACAGCATTGTCTCTCATGTACTTCGTGGGGTTTTTGTGGGCAATAG
CACGGCTTGAATAAGGCAGACGAGAAGCTGGAGCTCGGGGACACCGTTGTCTAGGGTCAAAGAATAAG
GCTTGCAGTGTGGTATTTATGTTTCTGTATTTTTTACAATGGCTGGCACCCTGTGGTGGTGTATCTCA
CCATTACGTGGTCTTAGCTGCCGGGAGAAAATGGAGTTGCGAAGCTATTGAACAAAAGCAGTGTGGT
CCATGCCGTTGCCTGGGGGGCGCCGGTCTGACCGTCATGCTGCTCGCTATGAATAAGGTGAAGGA
GACAACATTAGCGCGTTTGTCTCGTTGGCCTGTATGACCTGGACGCTCTCGCTACTTCGTCTCTGCG
CTCTGTGCTCTGCGTATTTGTTGGGCTGTCTCTCTTAGCCGGCATCATCTCTTGAATCATGTCCG
ACAAGTCATACAGCATGATGGCCGGAACCAAGAGAAGCTAAAGAAATTCATGATTCCGCATCGGATCTTC
AGTGGCCTGTATCTTGTGCCCTTAGTGACACTTCTCGTTGCTATGTCTATGAGCTAGTGAACAGGATCA
CCTGGGAGATGACATGGTCTCTGATCATTGTCAACAGTACCGCATCCCGTGCCTTACCAGGCAAATCC
AAAAGCTCGACCAGAATTGGCTTTATTTATGATAAAATATCTGATGACATTAATTGTTGGTATCTCTGCG
GTCTTCTGGGTTGAAGCAAAAAGACGTGCACAGAATGGGCCGGGTTCTTTAAGCGAAAACCGAAGCGAG
ACCCCATCAGTGAGAGCCGCGAGTGTGCAAGAGTCTGTGAGTCTTCTGAAGCACAACCTCTAAAGT
GAAGCACAAGAAGAAGCATGGCGCACCAAGGCCTCATAGGCTGAAGGTCAATTTCCAAGTCCATGGGAACT
AGCACAGGAGCGACCACAATCATGGCACCTCTGCCATGGCAATCGCTGACCATGATTACTTAGGGCAAG
AAACTTCAACAGAAGTCCACACCTCCCCAGAAGCATCCGTCAAAGAGGGACGAGCAGACCGAGCAAACAC
TCCCAGCGCAAAGATCGGGACTGTGGGAATCTGCAGGGCCAGTTCGAAGCTCTCTGGGAACCGGAAC
GGCAGGAAAAGCCGAGCGGGCGGCTGAAGGAGAGAAGCAATGGATCAGAGGGGGCTCCAAGTGAAGGAA
GGGTAAGTCCAAAGAGCAGCGTTCTGAGACTGGCCTGATAGACTGCAGCACTTCACAGGCCCGCAGTTC
TCCAGAACCAACCAGCCTCAAGGGCTCCACATCTGCTGTTCACTCAGCTTCCAGAGCTAGGAAAAGAG
CAGGGTGTGGCAGCCATTCGACGCT

ACGCGTACGCGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR227013 representing NM_008056
 Red=Cloning site Green=Tags(s)

MERSPFLACILLPLVRGHSFLTCEPITVPRCMKMTYNMTFFPNLMGHYDQGIAAVEMGHFLHLANLECS
 PNIEMFLCQAFIPTCTEQIHVVLPCKRKLCEKIVSDCKKLMDFGIRWPEELECNRPLPHCDDTVPVTSHPH
 TELSGPQKKSQVPRDIGFWCPKHLRTSGDQGYRFLGIEQCAPPNMYFKSDELDFAKSFIGIVSIFCL
 CATLFTFLTFLIDVRRFRYPERPPIIYYSVCYSIVSLMYFVGFLLGNSTACNKADEKLELGDVTVLGSKNK
 ACSVVFMFLYFFFTMAGTVWVILITITWFLAAGRKWSCEAIEQKAVWFHAVAWGAPGFLTVMLLAMNKVEG
 DNISGVCFVGLYDLASRYFVLLPLCLCVFVGLSLLLAGIISLNHVRQVIQHDGRNQEKLLKFMIRIGVF
 SGLYLVPVLTLLGCYVYELVNRIWEMTWFSCHQYRIPCPYQANPKARPELALFMIKYLMTLIVGISA
 VFVWGSKKTCEWAGFFKRNRKRDPISESRRVLQESCEFFLKHNSKVHKKKKGAPGPHRLKVISKSMGT
 STGATTNHGTSAMAIADHDYLGQETSTEVHTSPEASVKEGRADRANTPSAKDRDCGESAGPSSKLSGGRN
 GRESRAGLKERNGSEGAPSEGRVSPKSSVPETGLIDCSTSAASSPEPTSLKGSTSLPVHSASRARKE
 QGAGSHSDA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9013_f12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_008056

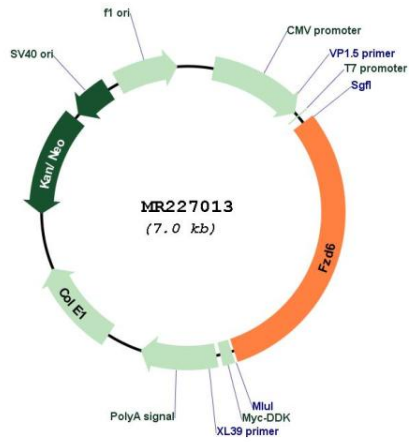
ORF Size: 2127 bp

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:	<ol style="list-style-type: none">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:	<u>NM_008056.3</u> , <u>NP_032082.3</u>
RefSeq Size:	4090 bp
RefSeq ORF:	2130 bp
Locus ID:	14368
UniProt ID:	<u>Q61089</u>
Cytogenetics:	15 15.22 cM
MW:	79.5 kDa
Gene Summary:	Receptor for Wnt proteins. Most of frizzled receptors are coupled to the beta-catenin canonical signaling pathway, which leads to the activation of disheveled proteins, inhibition of GSK-3 kinase, nuclear accumulation of beta-catenin and activation of Wnt target genes. A second signaling pathway involving PKC and calcium fluxes has been seen for some family members, but it is not yet clear if it represents a distinct pathway or if it can be integrated in the canonical pathway, as PKC seems to be required for Wnt-mediated inactivation of GSK-3 kinase. Both pathways seem to involve interactions with G-proteins. Activation by Wnt5A stimulates PKC activity via a G-protein-dependent mechanism. Involved in transduction and intercellular transmission of polarity information during tissue morphogenesis and/or in differentiated tissues (By similarity). Together with FZD3, is involved in the neural tube closure and plays a role in the regulation of the establishment of planar cell polarity (PCP), particularly in the orientation of asymmetric bundles of stereocilia on the apical faces of a subset of auditory and vestibular sensory cells located in the inner ear.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR227013