

## Product datasheet for **MC203775**

### **Fzr1 (NM\_019757) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Fzr1 (NM_019757) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Fzr1
Synonyms:	AW108046; Cdh1; Fyr; FZR; FZR2; HCDH; HCDH1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC006616  
 AGATTGGGGGAGGGAGTCGGGTTGCCACTGAGTTCGCCCATATTAGCTACCGCGGAGGCCGGGGATTCC  
 CGTGAGCAGCGCGCGGGGCTGTGCAACGGCGGGGCTCGAACAGCGCGCGGCTGTTCTGGGACCG  
 GCGGGAACCGCGGGTCCCGGCTGGCGACCGGAGCGAGGCAGGCTACCCTCGGCTGCGGGCTTGCCCGC  
 CTGCCACTCGCCATGGACCAGGACTATGAGCGAAGGCTCCTGCGGCAGATCATCATCCAGAATGAGAAC  
 ACAGTGCCTGTGTTTCAGAGATGCGGAGAACCCTGACACCAGCCAACTCCCAAGTGTCTTCACCCAGCA  
 AGCATGGTGACCGTTCATCCCCCTCGCGGGCCGGGGCCAACTGGAGCGTGAACCTCCACAGGATCAATGA  
 AAATGAGAAGTCCCCAGCCAGAACCAGCAAGCCAAAGGACGCCACCTCGGACAATGGCAAAGACGGCCTG  
 GCCTACTCCGCACTGCTGAAGAATGAGCTGCTGGGTGCCGCATCGAGAAGGTTCAAGACCCACAGACGG  
 AGGACCGCGGCTGCAGCCGTCCACACCAGAGCACAAGGGGCTCTTTACGTATTCCCTCAGCAGCAAGCG  
 CTCGAGTCCAGATGATGGCAATGACGTGTCCCATACTCTGTCCCCGTTAGCAACAAAAGTCAGAAG  
 CTGCTGCGGTACCACGGAAGCCACACGCAAGATCTCTAAGATTCCCTCAAGGTGCTGGACGCGCCAG  
 AGCTTCAGGACGACTTACCTCAACTTGGTGGACTGGTCTCCCTCAACGTGCTCAGCGTGGGGCTGGG  
 CACCTGCGTGTACCTGTGGAGTGCATGCACCAGCCAGGTACCCGCTCTGTGACCTCTCTGTAGAAGGG  
 GACTCAGTGACTTCCGTTGGCTGGTCTGAGCGGGGAACTTGGTGCAGTAGGTACACACAAGGGCTTCG  
 TGCAATCTGGGACGCTGCTGCTGGGAAGAAGCTGCCATGCTGGAGGGCCACACAGCAGAGTGGGGG  
 GCTGGCCTGGAATGCTGACCAGTTGTCATCTGGTAGCCGTGACCCATGATCCTACAGCGGGATATCCGC  
 ACACCACCCTGCAGTCAGAGCGCGGCTGCAGGGCCACCGGCAGGAAGTGTGTGGCCTAAAGTGGTCCA  
 CAGACCACCAGCTGCTTGCCTCGGGGGCAATGACAACAAGTGTGCTGGAACCACTCTAGTCTAAG  
 CCCTGTGACAGCAGTATACGGAGCACCTGGCAGCCGTGAAGGCTATTGCCTGGTCCCCACACCAGCATGGA  
 CTGCTGGCATCTGGTGGTGGCACGGCTGACCGTGTATCCGATTCTGGAACACTCTGACAGGTGACCCAC  
 TGCAGTGCATTGACACAGGCTCACAAAGTGTGCAACCTGGCCTGGTCCAAGCACGCCAATGAGCTGGTGAG  
 CACACATGGCTACTCACAGAACCAGATCCTCGTGTGGAAGTACCGTCCCTTACGCAGGTGGCCAAAGCTC  
 ACTGGCCACTCATATCGTGTCTTACCTGGCCATGTCCCTGATGGGGAGGCCATAGTCACCGGAGCTG  
 GAGATGAGACCCTGAGGTTCTGGAATGTCTTACGCAAAACACGCTCTACAAGGAATCTGTGTCTGTGCT  
 CAACCTCTTACCCGGATCCGATAGACCCCGCAGGCGGGATGTGAAGCCACAGGCAGAGATGGAGCAGC  
 CAGCATGCATAGGCCTTGTGTGCCCGCTTCCCCAGAAGCATCTGGCGGGCGGGAGCCGGAGACCCAG  
 AGTCTCATTAAATGCCTCATTGTGAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_019757

**Insert Size:** 1482 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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:** [BC006616](#), [AAH06616](#)

RefSeq Size: 1861 bp

RefSeq ORF: 1482 bp

Locus ID: 56371

UniProt ID: [Q9R1K5](#)

Cytogenetics: 10 C1

**Gene Summary:** Substrate-specific adapter for the anaphase promoting complex/cyclosome (APC/C) E3 ubiquitin-protein ligase complex. Associates with the APC/C in late mitosis, in replacement of CDC20, and activates the APC/C during anaphase and telophase. The APC/C remains active in degrading substrates to ensure that positive regulators of the cell cycle do not accumulate prematurely. At the G1/S transition FZR1 is phosphorylated, leading to its dissociation from the APC/C. Following DNA damage, it is required for the G2 DNA damage checkpoint: its dephosphorylation and reassociation with the APC/C leads to the ubiquitination of PLK1, preventing entry into mitosis. Acts as an adapter for APC/C to target the DNA-end resection factor RBBP8/CtIP for ubiquitination and subsequent proteasomal degradation. Through the regulation of RBBP8/CtIP protein turnover, may play a role in DNA damage response, favoring DNA double-strand repair through error-prone non-homologous end joining (NHEJ) over error-free, RBBP8-mediated homologous recombination (HR).[UniProtKB/Swiss-Prot Function]