

## Product datasheet for MC205910

### Fbxo5 (NM\_025995) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fbxo5 (NM_025995) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Fbxo5
Synonyms:	2510044I10Rik; C85305; Emi1; Fbxo31
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC053434

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TTTTCTGTGTCGCCGCCACCTCCCCAGCATTGGAGCCCGAGTTTTGCGGCATGAGCCGGCCACCTGC
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AATAAAAATAACACATAATTTGTTTAGTAAAATAAAATTTAGAGGTGTAAAAAAAACCTTCAACTTTA
AAAAAAAACCTTCAACTTTAATTTAAGAAAGTAAAAATAATTATGA

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<b>Restriction Sites:</b>	RsrII-NotI
<b>ACCN:</b>	NM_025995
<b>Insert Size:</b>	1266 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC053434</a> , <a href="#">AAH53434</a>
<b>RefSeq Size:</b>	1781 bp
<b>RefSeq ORF:</b>	1266 bp
<b>Locus ID:</b>	67141
<b>UniProt ID:</b>	<a href="#">Q7TSG3</a>
<b>Cytogenetics:</b>	10 A1
<b>Gene Summary:</b>	Regulator of APC activity during mitotic and meiotic cell cycle (PubMed:17190794, PubMed:15526037, PubMed:16809773). During mitotic cell cycle plays a role as both substrate and inhibitor of APC-FZR1 complex (PubMed:16809773). During G1 phase, plays a role as substrate of APC-FZR1 complex E3 ligase. Then switches as an inhibitor of APC-FZR1 complex during S and G2 leading to cell-cycle commitment. As APC inhibitor, prevents the degradation of APC substrates at multiple levels: by interacting with APC and blocking access of APC substrates to the D-box co-receptor, formed by FZR1 and ANAPC10; by suppressing ubiquitin ligation and chain elongation by APC by preventing the UBE2C and UBE2S activities. Plays a role in genome integrity preservation by coordinating DNA replication with mitosis through APC inhibition in interphase to stabilize CCNA2 and GMNN in order to promote mitosis and prevent rereplication and DNA damage-induced cellular senescence (By similarity). During oocyte maturation, plays a role in meiosis through inactivation of APC-FZR1 complex. Inhibits APC through RPS6KA2 interaction that increases FBXO5 affinity for CDC20 leading to the metaphase arrest of the second meiotic division before fertilization (PubMed:15526037). Controls entry into the first meiotic division through inactivation of APC-FZR1 complex (PubMed:17190794). Promotes migration and osteogenic differentiation of mesenchymal stem cells (By similarity).[UniProtKB/Swiss-Prot Function]