

Product datasheet for MC217900

2610110G12Rik (BC030669) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	2610110G12Rik
Synonyms:	0610011P08Rik; 2610008K08Rik; 2610110G12Rik; 3110080J08Rik; Mec17; TAT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC030669 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCTGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGTTCCTCGATGTGGATGCGCTGTTCCCGAGCGGATCACCGTGGTGGACGACCTGCGGC
CTCCGGCCCGCCGACCCGGAACCAACGCGCGCCGTGTGGATCTGCAGCAGCAATCATGACTATTGT
AGATGAGCTGGGCAAGGCTTCTGCCAAGGCGCAGCACCTCCCTGCACCCATCACCAGCGCTTTGAGGATG
CAAAGCAACCGGCACGTTATTTACATACTGAAGGACACCTCAGCCGACCGGCAGGGAAGGAGTCATTA
TTGGTTTCTCAAAGTTGGATACAAGAAGCTCTTTGTACTGGATGACCGGGAGGCTCACAATGAGGTAGA
ACCCCTTTGCATTCTGGACTTTTACATCCAGAGTCGGTGCAACGGCATGGCCACGGGCGAGAACTTTTT
CAGCATATGTTACAGAAAGAGCGAGTGGAGCCCCACCAACTGGCCATTGACCGACCATCGCCGAAGCTGC
TCAAGTTCCTGAATAAGCACTACAACCTGGAGACCACAGTCCACAGGTGAACAACCTTTGTCATCTTTGA
AGGCTTCTTTGCCCATCAGCACCTCCAGCACGGAAGCTGCCACCAAAAAGAGCAGAGGGAGACATTAAG
CCATACTCTTCCAGTGACAGAGAAATCCTGAAGGTAGCTGTGGAGCCTCCTTGCCCCCTGAACAGGGCCC
CTCGGCGTGCCACACCTCCAGCCACCCACCTCCACGTTCTAGCAGCCTGGGCAACTCACCAGGATCGGGG
TCCCCCTCGGCCCTTTGTTCCAGAGCAGGAGCTGCTTCGCTCCCTGCGTCTCTGTCCCCACACCTACT
GCACGCTTCTGCTGGCACTGACCTTGAGGCGAGCCAGCCAGCGCAGACGACGACCAAGGGGACTCCTT
GGGGGTGTTAGCCAAAGCTGCCACTACAGCCGCATGGGGGATTCAATACCTCATTCTGGGTACAGG
CAACCAAGAAGCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG
CTGGATGGGTCTGGGAGGAGCCTACAGACAGGTGCTCAAGGGCCAGGCGCCACCCCCCAGTCTCT
GGACGGTGGGTGGGACATAATGAACGCCAGGTCATTGAAACCTGCAGGAACGCCGACGACCAAGGCC
TTGTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTAA



Restriction Sites:	Sgfl-Mlul
ACCN:	BC030669
Insert Size:	1197 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	BC030669 , AAH30669
RefSeq Size:	1361 bp
RefSeq ORF:	1196 bp
Locus ID:	73242
Cytogenetics:	17 B1
Gene Summary:	Specifically acetylates 'Lys-40' in alpha-tubulin on the luminal side of microtubules. Promotes microtubule destabilization and accelerates microtubule dynamics; this activity may be independent of acetylation activity. Acetylates alpha-tubulin with a slow enzymatic rate, due to a catalytic site that is not optimized for acetyl transfer. Enters the microtubule through each end and diffuses quickly throughout the lumen of microtubules. Acetylates only long/old microtubules because of its slow acetylation rate since it does not have time to act on dynamically unstable microtubules before the enzyme is released. Required for normal sperm flagellar function. Promotes directional cell locomotion and chemotaxis, through AP2A2-dependent acetylation of alpha-tubulin at clathrin-coated pits that are concentrated at the leading edge of migrating cells. May facilitate primary cilium assembly.[UniProtKB/Swiss-Prot Function]