

Product datasheet for MC210992

Iqcg (NM_178378) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Iqcg (NM_178378) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Iqcg
Synonyms:	2400003L07Rik; esgd12d; G1-374-12; repro1; stubby12d
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC210992 representing NM_178378 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGACGAGGAAGAGGTGGAAGTCGTGGAGTCTCCTTCAGAGGTTTTACAACCTGAGGTCCTGTGGTGG
TGACAGGAGAGCCTCCTGAAGCTGCAGAAGAAGATCTAGATTACGAAGAAGAGGAAGAGACCTCCCCGGA
AGTCATAGAGACGCTGTCCCTTCTAGACGTGCTGAGGGTGTGGCCGTCATGGAGGACGTCATTGACCAG
CTCTCTATTCTCGCTACATCATTCCGGTTCAGTATGAAAGAAGGCAGAGCCTCACCCAGAAAGCCAGCC
ACGAAGGAGCATCTATGATTACAACCACCCGAAAAAATCTACTTCTTTGTTAACTAAAGAAAAATCCAT
GATGGCAGAAAAACAAACAGAGAGGGCAGGACTTTACCTTTAAAAAACCTACAAAGCAGACCATGATGACT
CTGGAGACACTGAAGAAAATTCAGAAATGACAGGCAATATTTTCAGTGATGTAATTGCAAAATGCCATGATGG
AGATGCAAGATTCTGGCTCTTTCACCAGTCTCCTGAAAGCCTTGGGCAAAGAAAGAGACAGCAAAATGAA
TTTCCATGATGTCATCACAAGGGAGGAAAAGGGAAAGAAAACAGATAAAAAACCTTCAAAAACAGTTACTT
GATGTCAAAAGGGAGCGTCAAATGCAAGTACAGAACGGGAATGAATACATTGCTCACCTCAGGGACCAGC
TACAAGAGATGAAGGCGAAAACCAACTTGGAGAATCTTTATATGAAAAGAAATGCTGAGCTGCAGATTTTC
CCAGACCCAGAAGAAATGTAACCGAGCAGAAGAACTCTTGTGGAGGAGATTGAGAAACTGAGGATGAAA
ACTGAAGAGGAGAACCGGTTCCACAGGAGATCGAAATGTTTCTTAAAAACAGCAGCAGAACTTGAGG
AGAAGCTAGAGTTCTGGATGGAGAAATTTGACAAAGACACAGAAGCAAAGCAGAACGAGTTAAATGCTCT
CAAGGCTGCCAAGGCCAGTGACCTGGTACACCTGCAAGACCTGGCAAAGATGATCCGGGAGTACGAGCAG
GTCATTATTGAGGACCGGATAGAAAAGGAGAAGACCCGGAAGAAGCTGGAGCAGGATGACCTGGAGCTGA
GGAGCATCGTGAAGCTCCAGGCCTGGTGGCGAGGGTCAGTGGTCCGGAAGGAAATTTGCCAATTTCAAAT
GCCAAGAAAGATAAAGATGACAGCAAAGACTCGAAAGGCAAGGAGAAGGAGAAGGAGAAGAAAG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_178378
Insert Size:	1260 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:	<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:	NM_178378.3 , NP_848465.1
RefSeq Size:	4027 bp
RefSeq ORF:	1260 bp
Locus ID:	69707
UniProt ID:	Q80W32
Cytogenetics:	16 B3
Gene Summary:	Component of the nexin-dynein regulatory complex (N-DRC), a key regulator of ciliary/flagellar motility which maintains the alignment and integrity of the distal axoneme and regulates microtubule sliding in motile axonemes. Binds calmodulin when cellular Ca(2+) levels are low and thereby contributes to the regulation of calcium and calmodulin-dependent protein kinase IV (CAMK4) activity; contributes to the regulation of CAMK4 signaling cascades (By similarity). Required for normal axoneme assembly in sperm flagella, normal sperm tail formation and for male fertility (PubMed:24362311, PubMed:24849454). [UniProtKB/Swiss-Prot Function]