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Product datasheet for MC224455

2700049A03Rik (NM_029818) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	2700049A03Rik (NM_029818) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	2700049A03Rik
Synonyms:	mKIAA0586; Ta3; Talpid3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

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>MC224455 representing NM_029818
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAAAACGTTGAGTTTAGCCTGGAAAGGGGGCAAAGGCTTAAAATGCCAGCGAGGAAACTGCGAGAGA
TTGTTTCTCCAAACCAAGGGAATAAATTGGCTGTGGTGGAAGATGAGCTGCCCCGTGTTCCTCCAGCCCT
GGCTGCAAATAAACGTCTTGCTGTTGAAACGAGGACTAGTTCTAATGGAACGTTATGTGGCTCCTTGGAT
TTAACTTCTGCAAGACTGTATCACCAGCCTCTGTTAGAAAGTCCTCCTGCGTCCAAGAAAAGTGATTTTT
CTAAAGATGCTGTAGTTCGGCAGTTACCTTTGAATAAAACAGAAGAGAACAACGCACCAAAAGCAAATGA
CATCTTTATTTCTCAGTACACCATGGGACAGAAAGATGCTCTGAGAACTGTTTTAAAGCAAAAAGCTCAA
AGCATGCCTGTTTTTAAGGCGGTGAAAGTACATCTTTTTGAAGACACGAGTACAGAAAAGAATACTGTTG
CTCAGGAGACTGAAACTCCACCCAATAGAATTGATTCAGCTACAACTGTGGCTGCGGCAACTGCCGCTGC
CATCGCAACAGCAGCTCCTTTGATCAAGGTACAGAGTGATTTGGAGGCAAAGGTTAATTGTGTTGGAGAG
TTACTTACTAAGTTACAGGAGACTGATAAACAGTTACAGCGCGTGACAGAGCACCAAGCCAGCGTTCAGA
GTAAGCAAGAGAAAGTGCACTGTCATGACCACGACAAGCAGATGAACGCGTTCATGGAGCAGCATATCAG
GCACCTTGAAAAACTACAGCAACAGCAGATAGACATTCAGACCCATTTTATTGATGCTGCACTCAAGGCT
AGCAGTCTTCAACTTGGCATGTCCACGTCCAGAGCAGTGGGGAAGTATTCTGGAAAACTGGGAAGCCCTA
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TCACAAATATTTCCTTCCTCTGAAGAGCGGGGAACAGCTCAAGTACCCGTGCCGAAGTATAATGATGTTG
TTCATGATCTTGGCCAGAAGAAACAAGCAAGTGACATGCTCCAGATAAAGCAATCTCCAGTTACCTTGAG
GCTTTCAGATCATCCGCATAATCCTGCCTTGCTCCAGACAACCAATACAAGGTCTGTCTTGAAAGATGCT
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GCGAAGATTCTGAGAGGAGTACAAAACAATAAAAAAGTACTAGAAGAAAACCTGGAAGCTATCGTTCGTG
CAAAGGATGGAGCTGCTATGTATTCATTTATCAATGCTTTAGCTACCAATAGAGAGATGTCAGAGAAAAT
TAGGATCAGAAAGCAGGTAGATGAATGGATTAAAATCATTTCAGCAGAAATCCAGGATGAACTTATGAGA
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ATATTAAAGCCAATAACCAAGAAAAAACGGTGAACAGATCTGTAATTCCAAGAAGCCATTATCAAAAGCA
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GGCCTCTTGAAGTCAGCCACAACGTTGCAAGACGAGGATTATATGTTACAGATATATGGGAAGCCAGTTT
ATCAGGGCCACCGCAGCACTCTTAAGAAAGGACCGTATCTCAGATTCAGTTCTCCGTCTCCTAAGGCCAA
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TTTCATGCTGCATCACGTATGAAAATGGATTCTAAAATACAGCATCCCATCACCGCACTACCTCATGCTG
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AATTCCTGAATGCTCTGCACCAATGTTGGAGTTTAACAGAAGTGTTAAAGTTGTTCCTACAAAATATAAT
GGTCCTTCATTTCCTCCTGTAGTTTCTGCTTACCATCCCACTACTGATATTTTAGATAAAGTAATTGAGA
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GCTCTTTCCACTCCAGCAACAGGCCAGACTTGATGCCAGTGTCTCAGTAAGTGAGGCGAGCGAACCGTCA
GCTTCTGACATTGTTGCAGGAACAAGCAGTGGAGCGCTCCAGCGTATGGTTGATGCCAGAGTTCCTGTGA
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AGAAGCAGAGAGGCAAAGGGCTGCTGCCACAAGTGTTCCTGGTGATCTTTCAGGAACTGAAACTAACCTG
TTGGCAAGAGTTTGTGCTCCAGTAGCGACGCCGCAGCCCACTCCCCCCTGCTCACCATCACCTGTGAGGG
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GTCGCTACCCCTCCTCCAGCAGCAGCTCTTACCCCAACTTTGTCCGAAACTTCCATTGACAAGTTGAAGT
TATCAAGCCCTGAACTTCCCAAGCCATGGGACAGTGGAGACCTGCCACTGGATGAAGAGAATCCTAACTC
TCTTCAAGAGCTTCCTCACCCAAGAGCGGTTGTAATGTCTGTGGCTAATGAAGAACCTGAGAGTGTGGAC
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CCCTCCAGCGAGTACCAAGTTCAGGTTCATCCACCCTGGAGAACACTCTGAGCACTGTCACTGAAACAGA
AACGCTAGACAGGCATATATCTGAAGGGGAGATCTTATTTAGCTGTGGTCAAAACTTGGCTACCAAGAGA
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AAGATGACCCTCCCAGTGAAGGGCAGGTGATTAGGAGGCCCCACAAAAAGCGTCATGAAGATGCCATCGT
TGCCCTTCTTACTAAGCAACAACGGGAGTTATTAGTTTCACAGCAAGAGGAGGACTTGGATAACAGCGTG
GGTGAGCTTAGTGAAGGACAGAGGCTCGTGCTGAAAGCAGCAGAGGACATCTCAGCAGGACCGTCCGGCC
AAATGCTGCCGCCCACTTCTCCTGCAGAGCCCTCCTATCAGCACGCAGACCCTCGGCTGGTATTGCAGCA
GTCTGACATGGCCTCAGGTGGCCCGGCAGATCTGCTCCTCATTGCACATGTGTCACCCGCCAGGATGTCT
GTGACTCTACCCTCTGCGAACCTTGAGGACTGCTCTCAGTCCCTGAGCACCAGCTCCATGCATGGCGGCA
CCGAATCCTCAGGGACAGACACCTTCTGA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-RsrII
ACCN:	NM_029818
Insert Size:	4299 bp

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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:	NM_029818.1, NP_084094.1
RefSeq Size:	5499 bp
RefSeq ORF:	4299 bp
Locus ID:	76967
Cytogenetics:	12 C2- C3
Gene Summary:	Required for ciliogenesis and sonic hedgehog/SHH signaling (PubMed:21750036). Required for the centrosomal recruitment of RAB8A and for the targeting of centriole satellite proteins to centrosomes such as of PCM1. May play a role in early ciliogenesis in the disappearance of centriolar satellites that preceeds ciliary vesicle formation (By similarity). Involved in regulation of cell intracellular organization (PubMed:26386247). Involved in regulation of cell polarity (By similarity). Required for asymmetrical localization of CEP120 to daughter centrioles (PubMed:25251415).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) lacks two in-frame exons in the 3' coding region, compared to variant 1. This results in a shorter protein (isoform 2) compared to isoform 1.

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