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Product datasheet for MC205495

Ick (NM_019987) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ick (NM_019987) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ick
Synonyms:	2210420N10Rik; AI848300; Mrk
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>BC028863
GTATTTGGGAGATAATCACGTTCTGTTGAATACCTTGTGCTGGTGCTGCCATCGAAAAATCTGGTTACAG
TCTGGGGAGGCCTGCTACCATTGCAGGACTGAACCGCCTCGGCCCTGAGATGAGTGTCCCGACAGAGCAG
GCGCACGCACCATGAATAGATACACAACGATCAAGCAGCTTGGGGATGGGACCTACGGCTCTGTCCTGCT
GGGGAGAAGCATTGAGTCTGGAGAACTGATTGCCATTAAAAAAATGAAAAGAAAGTTTTACTCCTGGGAA
GAATGCATGAACCTTCGGGAGGTTAAGTCTTTAAAGAAGCTTAATCATGCCAATATCGTAAAGTTAAAAG
AGGTTATCAGGGAAAACGACCATCTTTACTTTATCTTCGAGTACATGAAGGAAAACCTTTACCAGCTCAT
TAAAGAAAGAAATAAGTTGTTTCCAGAGTCTGCTATAAGGAATATAATGTACCAGATATTGCAAGGACTG
GCATTCATTCACAAACACGGTTTCTTCCACCGGGACTTAAAACCCGAGAACCTCCTCTGCATGGGACCAG
AACTTGTGAAAATCGCCGACTTTGGATTGGCTCGAGAAATCCGATCAAGACCTCCGTACACAGACTATGT
GTCTACTAGATGGTACAGGGCTCCAGAGGTACTGCTGAGATCCACCAACTACAGCTCCCCCATTGACATC
TGGGCGGTAGGCTGCATCATGGCGGAGGTGTACACGCTCCGGCCCCTTTTCCCTGGGGCCAGTGAAATTG
ACACAATTTTCAAAATTTGCCAAGTGTTGGGAACACCAAAGAAGACTGACTGGCCTGAAGGCTACCAGCT
GTCAAGTGCTATGAATTTCCTCTGGCCCCAGTGCATACCCAATAACTTAAAGACTCTAATCCCAAATGCT
AGCAGCGAAGCCATTCAGCTCCTGAGAGACTTGCTTCAGTGGGATCCCAAGAAACGACCAACCGCTAGTC
AGGCTCTTCGATATCCTTACTTCCAGATCGGACACCCACTGGGCATCATCAGCAAGGACTCAGGAAAACC
ACAGAGAGAGGTCCAGGACAAGACAGGCCCTCCTCCTTACATCAAGCCAGCCCCTCCTGCCCAGGCCCCG
GCCAAGGCATATACGCTGATTTCTTCACGACCAAGCCAAGCCAGTCAGCCCCCTCAGCATTCTGTGCACC
CCTACAAAGGCGATGTCTCTAGGACTGAGCAGCTGAGCCATGTTCAGGAGGGCAAGCCAAGCCCTCCATT
CTTCCCATCCCTCCACAATAAGAATCTTCAGCCAAAAATCCTAGCCAGCCTGGAACAGAAAAATGGTGAA
ATCAAGCCAAAGAGCAGGAGAAGATGGGGTCTCATCTCCAGGTCGACAAAGGGTTCTGACGACTGGGCCG
ACTTGGATGACTTAGACTTCAGTCCCTCTCTCACCAGGATAGATGTAAAAAACAAGAAGAGACAGAGTGA
TGACACCCTCTGCAGGTTTGAAAGTGTTCTGGACCTGAAGCCATCTGAGTCAGTGGGTACAGGAACCACT
GTCTCCACGCAGGCTTCCTCGCAGAGGAGAGACACGCCGACCCTGCAGTCCTCAGCAAAGCAGCACTACT
TGAAGCACTCTCGCTACTTGCCTGGAATAAATATAAGAAATGGCGTGCTCCCAAATCCAGGCAAGGACTT
TCTTCCATCAAATTCATGGTCCAGTTCCGGCTTGTCTGGAAAATCTTCAGGAACAGTATCAGTAGTGAGC
AAAATAACTTCAGTTGGCTCAGGCTCTGCGAGCTCTAGTGGACTGACTGGAAGCTACATCCCTTCCTTTC
TGAAAAAGGAAATCGGTTCTGTCATGCAGAGGGTTCAGCTGGCGCCCCTCGCAGCCCCTCCCCCCGGCTA
CTCTTCCCTCAAGGCCGTGAGACCTCACCCGGGGAGGCCTTTCTTTCACACCCAGCCCAGGAGCACGCCC
GGCTTGATCCCCCGACCTCCAGCTGCTCAGCCTGTGCACGGCAGGATAGACTGGTCTTCCAAGTACCCAT
CCCGGCGGTGACTGTCCCGGCCACGGGCCGTGCTCCTCAGCTGGCTCCATTGTACCCGCACAACCACGAG
GCGGTGTAAAACAACCCACACTTACAGCTGTTCTGAACTAATACATTTCAATATTTCTTTTAAATTTTTT
TTAAAACATTGATTTGAATGCAATACCCTCTTTTTGTATAAAATTATTTTATTCTAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_019987

Insert Size: 1890 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:	BC028863, AAH28863
RefSeq Size:	2263 bp
RefSeq ORF:	1890 bp
Locus ID:	56542
UniProt ID:	Q9JKV2
Cytogenetics:	9 E1
Gene Summary:	Has an essential role in ciliogenesis, particularly in neuronal and retinal progenitor cells (PubMed:24797473). Phosphorylates KIF3A (PubMed:24797473). Involved in the control of ciliary length (PubMed:24853502). Regulates the ciliary localization of SHH pathway components as well as the localization of IFT components at ciliary tips (PubMed:24797473, PubMed:24853502). May play a role in cardiac development (By similarity). Regulates intraflagellar transport (IFT) speed and negatively regulates cilium length in a cAMP and mTORC1 signaling -dependent manner and this regulation requires its kinase activity (PubMed:25243405).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same protein. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.