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Product datasheet for MC219730

Kirrel3 (NM_001190913) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kirrel3 (NM_001190913) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kirrel3
Synonyms:	1500010O20Rik; 2900036G11Rik; mKIAA1867; NEPH2; SST4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>MC219730 representing NM_001190913
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGACCTTTCCAGCTGGATTTGCTCTTCCTCTGCTTCTTCCTCTTCAGTCAAGAGCTTGGCCTCCAGA
AGAGAGGATGCTGTCTGGTACTGGGCTACATGGCCAAGGACAAGTTTCGGAGAATGAATGAAGGTCAAGT
CTACTCCTTCAGCCAGCAACCCCAGGACCAAGTGGTGGTGTCAGGACAGCCAGTGACTCTGCTGTGTGCC
ATCCCTGAATATGATGGCTTCGTCCTGTGGATCAAAGATGGCTTGGCTCTGGGTGTAGGCAGAGACCTCT
CAAGTTACCCCCAGTACCTGGTGGTGGGGAACCACCTCTCAGGAGAGCATCACCTGAAGATCCTGAGGGC
TGAGCTTCAGGATGATGCCGTGTATGAGTGCCAGGCCATCCAGGCTGCCATCCGGTCCCGCCCTGCACGC
CTCACCGTCCTGGTGCCACCAGATGACCCCATCATCCTAGGGGGGCCTGTGATCAGCCTTCGGGCAGGGG
ACCCCCTCAACCTCACCTGCCACGCAGACAATGCCAAGCCTGCGGCTTCCATCATCTGGCTACGTAAAGG
AGAGGTCATCAATGGAGCCACCTACTCCAAGACCCTGCTTCGAGACGGCAAACGAGAAAGCATTGTCAGC
ACCCTCTTCATCTCCCCAGGAGACGTGGAAAATGGACAGAGTATTGTGTGCCGAGCCACCAACAAAGCCA
TCCCCGGAGGAAAAGAGACCTCTGTCACCATAGACATCCAGCATCCACCGCTTGTCAACTTGTCCGTGGA
ACCACAGCCGGTATTGGAGGACAACATCGTCACGTTCCACTGCTCTGCAAAGGCCAACCCAGCTGTCACC
CAGTACAGGTGGGCCAAACGGGGTCACATCATCAAGGAGGCATCTGGGGAGCTGTATAGGACCACGGTGG
ACTACACATACTTCTCAGAGCCTGTATCCTGTGAAGTAACCAATGCCCTGGGCAGCACCAACCTCAGCCG
CACAGTGGATGTATACTTCGGTCCTCGAATGACCTCAGAGCCTCAGTCACTGCTGGTAGATCTGGGCTCC
GATGCTGTCTTCAGCTGTGCGTGGATCGGCAACCCGTCTCTGACCATCGTGTGGATGAAACGAGGTTCTG
GTGTGGTCCTGAGCAATGAAAAGACCCTAACCCTCAAATCTGTCCGCCAAGAGGATGCTGGGAAGTACGT
GTGCCGGGCTGTGGTGCCCCGGGTAGGAGCTGGGGAGAGAGAGGTGACCTTGACTGTCAATGGACCCCCC
ATCATCTCCAGCACACAGACCCAGCACGCCCTCCACGGAGAGAAGGGCCAGATCAAATGCTTCATCCGGA
GCACACCACCGCCTGACCGAATTGCCTGGTCCTGGAAGGAGAATGTGCTGGAGTCAGGGACATCAGGGCG
CTACACAGTGGAGACGGTGAACACGGAGGAGGGAGTCATCTCCACATTGACCATTAGCAACATTGTGCGT
GCTGACTTCCAGACCATATACAACTGTACAGCCTGGAACAGCTTTGGCTCTGACACAGAGATCATCCGAC
TCAAGGAACAAGAGTCTGTACCAATGGCCGTCATCATCGGGGTGGCCGTAGGAGCTGGCGTGGCCTTCCT
CGTCCTAATGGCAACCATTGTGGCCTTCTGCTGTGCCCGTTCCCAGAGAAATCTCAAAGGTGTTGTATCA
GCCAAAAATGATATTCGAGTGGAAATTGTGCACAAGGAGCCATCTTCTGGCCGGGAGGCTGAGGACCACA
CCACCATAAAGCAGCTGATGGTAAGAGCACAGCCTATGCCCCACTCCATCCTGAGCACACAGACTTCCCG
ATGCTCTCCATACTGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1923_d10.zip

Restriction Sites: SgfI-MluI

ACCN: NM_001190913

Insert Size: 1839 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

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_001190913.1, NP_001177842.1

RefSeq Size: 3138 bp

RefSeq ORF: 1839 bp

Locus ID: 67703

UniProt ID: Q8BR86

Cytogenetics: 9 A4

Gene Summary: Synaptic adhesion molecule required for the formation of target-specific synapses (PubMed:23637329, PubMed:26575286). Required for formation of target-specific synapses at hippocampal mossy fiber synapses. Required for formation of mossy fiber filopodia, the synaptic structures connecting dentate granule and GABA neurons. Probably acts as a homophilic adhesion molecule that promotes trans-cellular interactions and stabilize mossy fiber filipodia contact and subsequent synapse formation (PubMed:26575286). Required for the coalescence of vomeronasal sensory neuron axons (PubMed:23637329). May be involved in the hematopoietic supportive capacity of stroma cells; the secreted extracellular domain is directly responsible for supporting hematopoietic stem cells (PubMed:12665856). [UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (D) lacks an in-frame exon and uses an alternate splice site, which results in a frameshift, in the 3' coding region, compared to variant A. The resulting protein (isoform D) has a shorter and distinct C-terminus, compared to isoform A.