

Product datasheet for **MG222378**

Kirrel3 (NM_001190911) Mouse Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Kirrel3 (NM_001190911) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Kirrel3 |
| Synonyms: | 1500010O20Rik; 2900036G11Rik; mKIAA1867; NEPH2; SST4 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide
Sequence:

>MG222378 representing NM_001190911
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGACCTTTCCAGCTGGATTGCTCTTCTCTGCTTCTTCTCAGTCAAGAGCTTGGCCTCCAGA
AGAGAGGATGCTGTCTGGTACTGGGCTACATGGCCAAGGACAAGTTTCGGAGAATGAATGAAGGTCAAGT
CTACTCCTTCAGCCAGCAACCCAGGACCAAGTGGTGGTGTCCAGGACAGCCAGTACTCTGCTGTGTGCC
ATCCCTGAATATGATGGCTTCGCTCTGTGGATCAAAGATGGCTTGGCTCTGGGTGTAGGCAGAGACCTCT
CAAGTTACCCCACTACCTGGTGGTGGGAACCACTCTCAGGAGAGCATCACCTGAAGATCCTGAGGGC
TGAGCTTCAGGATGATGCCGTGTATGAGTGCCAGGCCATCCAGGCTGCCATCCGGTCCCGCCCTGCACGC
CTCACCGTCTGGTGCCACCAGATGACCCCATCATCTAGGGGGCCTGTGATCAGCCTTCGGCAGGGG
ACCCCTCAACCTCACCTGCCACGCAGACAATGCCAAGCCTGCGGCTTCCATCATCTGGTACGTAAGG
AGAGGTCAATGGAGCCACTACTCCAAGACCTGCTTCGAGACGGCAAACGAGAAAGCATTGTCAGC
ACCTCTTTCATCTCCCAAGGAGAGCTGGAAAATGGACAGAGTATTGTGTGCCGAGCCACCAACAAAGCCA
TCCCGGAGGAAAAGAGACCTCTGTCCACATAGACATCCAGCATCCACCGCTTGTCAACTTGTCCGTGGA
ACCACAGCCGGTATTGGAGGACAACATCGTCACGTTTCCACTGCTCTGCAAGGCCAACCCAGCTGTACCC
CAGTACAGGTGGGCCAAACGGGGTACATCATCAAGGAGGCATCTGGGGAGCTGTATAGGACCACGGTGG
ACTACACATACTTCTCAGAGCCTGTATCCTGTGAAGTAACCAATGCCCTGGGCAGCACCAACCTCAGCCG
CACAGTGGATGTACTTTCGGTCTCGAATGACCTCAGAGCCTCAGTCACTGTGGTAGACTGGGCTCC
GATGCTGTCTTCAGCTGTGGTGGATCGCAACCCGCTCTGACCATCGTGTGGATGAAACGAGGTTCTG
GTGTGGTCTGAGCAATGAAAAGACCCTAACCTCAAATCTGTCGCAAGAGGATGCTGGGAAAGTACG
GTGCCGGCTGTGGTGCCTCCGGTAGGAGCTGGGGAGAGAGAGGTGACCTTGACTGTCAATGGACCCCC
ATCATCTCCAGCACAGACCCAGCAGCCCTCCACGGAGAGAAGGGCCAGATCAAATGCTTTCATCCGGA
GCACACCACCGCTGACCGAATTGCCTGGTCTGGAAGGAGAATGTGCTGGAGTCAGGGACATCAGGGCG
CTACACAGTGGAGACGGTGAACACGGAGGAGGAGTCACTCCACATTGACCATTAGCAACATTGTGCGT
GCTGACTTCCAGACCATATAAAGTGTACAGCCTGGAACAGCTTTGGCTCTGACACAGAGATCATCCGAC
TCAAGGAACAAGGTTTCGAAAATGAAGTCGGGAGCCGGCTGGAAGCAGAGTCTGTACCAATGGCCGTCA
CATCGGGTGGCCGTAGGAGCTGGCGTGGCCTTCTCTGCTTAATGGCAACCATTGTGGCCTTCTGCTGT
GCCGTTCCAGAGAAATCTCAAAGGTGTGTATCAGCCAAAAATGATATTCGAGTGGAAATTTGTCACA
AGGAGCCATCTTCTGGCCGGGAGGCTGAGGACCACACCACCATAAAGCAGCTGATGATGGACCGGGTGA
ATTCCAACAAGACTCGGTGCTGAAACAGCTGGAGTCTCAAAGAAGAGGAGAAGGAGTTTCAGAACCTG
AAGGACCCCAACCGGCTACTACAGCCTCAACACCTTCAAAGAACCATTCAACTCCAACCATCTCCC
TGTCCAGTGCAGCCAGACCTGCGTCCGACAGGCAAACAGCGTGTGCCACAGGCATGTCTTACCAA
CATCTACAGCACCTTGAAGCGCCAGGGCCGCTTACGACTATGGACAGAGGTTTGTGCTGGCATGGGC
AGCTCTTCCATTGAGCTTGTGAGCGGGAGTTTCAGAGGGGCTCCCTCAGCGACAGCAGCTCCTTCTGG
ACACGCAGTGTGACAGCAGCGTCAAGCAGCAGCGCAAGCAAGATGGCTACGTGCAGTTTGAACAGGCCAG
CAAGGCTTCTGCCTCCTTCCCACCATTCCCAGTCTTCCCAGAAGTCCGACCCAGCCGACCCCTG
CAGCGGCCGATGCAGACTCACGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG222378 representing NM_001190911
Red=Cloning site Green=Tags(s)

MRPFQLDLLFLCFFLFSQELGLQKRGCCCLVLGYMAKDKFRRMNEGQVYSFSQQPQDQVVVSGQPVTLLCA
IPEYDGFVLWIKDGLALGVGRDLSSYPQYL VVGNHLSGEHHLKILRAELQDDAVYECQAIQAAIRSRPAR
LTVLVPPDDPIILGGPVISLRAGDPLNLTCHADNAKPAASIIWLRKGEVINGATYSKTLRLDGKRESIVS
TLFISPGDVENGQSIVCRATNKAIIPGGKETSVTIDIQHPPLVNLVSEPPVLEDNIVTFHCSAKANPAVT
QYRWAKRGHIIKEASGELYRRTTVDYTYFSEPVSCVTNALGSTNLSRTVDVYFGPRMTSEPOQLLVDLGS
DAVFSCAWIGNPSLTIWVMKRGSGVLSNEKTLTLKSVRQEDAGKYVCRAVPRVGGAGEREVTLTVNGPP
IISSTQTQHALHGEKGQIKCFIRSTPPPDRIAWSKENVLESGTSGRYTVETVNTTEEGVISTLTISNIVR
ADFQTIYNCTAWNSFGSDTEIIRLKEQGSEMKSAGLEAESVPMAVIIGVAVGAGVAFVLMATIVAFCC
ARSQRNLKGVVSAKNDIRVEIVHKEPSSGREADHTTIKQLMMDRGEFQQDSVLKQLEVLKEEKEFQNL
KDPTNGYYSVNTFKEHSTPTISLSSCQPDLRPTGKQRVPTGMSFTNIYSTLSGQGRLYDYGQRFVLMGM
SSSIELCEREFQRGSLSDSSFLDTQCDSVSSSGKQDGYVQFDKASKASASSSHHSQSSSQNSDPSRPL
QRRMQTHV

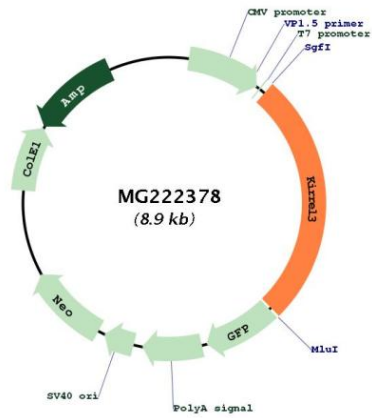
TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1836_e01.zip

Restriction Sites: Sgfl-Mlul

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| OTI Disclaimer: | <p>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.</p> <p>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</p> |
| OTI Annotation: | <p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p> |
| Components: | <p>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).</p> |
| 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: | <p>NM_001190911.1, NP_001177840.1</p> |
| RefSeq Size: | <p>3737 bp</p> |
| RefSeq ORF: | <p>2337 bp</p> |
| Locus ID: | <p>67703</p> |
| UniProt ID: | <p>Q8BR86</p> |
| Cytogenetics: | <p>9 A4</p> |
| Gene Summary: | <p>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 filopodia 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]</p> |

Product images:



Circular map for MG222378