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Product datasheet for MC229299

Clec16a (NM_001204229) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Clec16a (NM_001204229) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Clec16a
Synonyms:	4932416N17Rik; curt; mKIAA0350
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC229299 representing NM_001204229 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTTTGGACGCTCACGGAGCTGGGTGGGCGGGGGCCACAGCAAGTCCTCCCGCAACATCCACTCCTTGG ACCACCTGAAGTACCTGTACCATGTTTTAACAAAAAACACCACTGTCACAGAACAAAATCGGAACCTGCT CGTGGAGACCATCCGTTCCATCACTGAGATCCTGATTTGGGGCGATCAAAATGACAGCTCTGTGTTTGAC TTCTTCCTGGAGAAGAATATGTTTGTTTTCTTCTTGAACATTCTGCGGCAGAAATCAGGCCGTTATGTGT GTGTGCAGCTGCTACAGACCTTGAACATTCTCTTTGAGAACATCAGCCACGAGACATCGCTCTATTATTT GCTGTCTAATAACTATGTAAACTCGATCATTGTCCATAAATTTGACTTTTCCGACGAGGAGATCATGGCG TATTACATATCGTTCCTGAAAACGCTTTCATTAAAGCTCAACAACCACACTGTCCATTTCTTTTACAATG AGCACACCAATGACTTTGCCCTGTACACAGAAGCCATCAAGTTCTTCAATCATCCCGAAAGCATGGTTCG AATTGCCGTGAGAACCATCACTTTGAATGTCTACAAAGTGGATAACCAGGCCATGCTGCACTACATCAGA GACAAAACCGCTGTCCCGTACTTCTCCAATTTGGTCTGGTTCATTGGGAGCCATGTGATCGAACTTGACA ACTGTGTGCAGACAGATGAGGAGCACCGGAATCGGGGGAAACTGAGTGACCTGGTGGCTGAGCACTTGGA CCACCTGCACTATCTCAACGACATCCTGATCATCAACTGCGAGTTCCTCAATGACGTACTCACCGACCAC CTGCTCAACAGGCTTTTCCTGCCGCTCTACGTGTACTCCCTGGAGAACCCCGACAAGGGAGGAGAACGGC CAAAAATCAGCCTGCCTGTGTCCCTCTATCTTCTCTCCCAGGTCTTCCTCATTATACATCACGCCCCGCT GGTGAACTCTCTGGCTGAAGTCATTCTGAATGGTGATCTATCTGAGACATACACAAAGCCTGCACAGGAT GTTCCCAGAAGTTCTGCCAAGCCCAGCATCCGGTGCTTCATTAAGCCCACTGAGACACTCGAGCGGTCCC TTGAGATGAACAAGCACAAGGGCAAGAAGCGGATGCAAAAGAGACCCAACTACAAAAACGTTGGGGAGGA GGAGGACGAGGAGAGAGGGTCTGCTGAAGATGCCCAGGAAGACGCTGAGAAGACTAAAGAGATTGAGATG GTGATCATGAAGCTTGGCAAGCTCTCAGAGGTGGCCGCTGCTGGGACCTCAGTGCAGGAGCAGAACACCA CAGACGAGGAGAAGAGCGCCGCCACGAACTCAGAGAATGCACAGTGGAGCAGACCCTTCCTGGATATGGT GTACCATGCCCTGGACAGCCCTGACGATGACTATCACGCCCTCTTCGTGCTCTGCCTCCTGTATGCCATG TCTCATAACAAAGGCATGGATCCTGAAAAACTAAAACGAATTCAGCTCCCAGTGCCAAGTGAAGCTGAGA

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AAACCACCTACAACCATCTGCTGGCCGAGAGGCTCATCAGGATCATGAACAATGCTGCTCAGCCAGATGG
CAGGATCCGGTTGGCTACACTGGAGCTGAGCTGCCTGCTCCTGAAGCAGCAAGTACTGACCAGCTCTGGC
TGTGTCATCAAGGATGTGCACCTGGCCTGTTTGGAGGGTGCAAGAGAAGAGAGTGTCCACCTTGTACGTC
ATTTCTATAAGGGAGAAGAGATTTTCTTGGACATGTTTGAAGATGAGTACAGGAGCATGACAATAAAGCC
CATGAATGTGGAGTATCTCATGATGGATGCTTCCATCCTCCTGCCCCCAACGGGCACTCCACTGACTGGC
ATTGACTTTGTGAAGCGGCTGCCATGTGGTGATGTGGAGAAGACGAGGCGGGCCATCCGGGTATTCTTCA
TGCTGCGTTCCCTGTCACTGCAGCTGCGAGGGGAACCTGAGACCCAGTTGCCACTGACTCGGGAGGAGGA
CCTGATCAAAACAGATGATGTCTTGGATCTGAATAACAGTGACTTGATTGCATGCACAGTCATCACCAAG
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TGACAGCCGTGCCCTGAACATCACCATTCACAAGCCTGCCTCCAGCCCGCACTCTAAGCCCTTCCCTATC
CTGCAGGCCACCTTCGTGTTCTCGGATCATATCCGCTGCATTATTGCCAAGCAGCGCCTGGCCAAGGGCC
GCATCCAGGCCAGGCGCATGAAGATGCAGAGGATAGCCGCCCTTCTGGACCTCCCAATCCAGCCGACAAC
AGAAGTCCTGGGATTTGGACTCTGCTCCTCCTCCTCCTCCTCCCAGCACCTGCCTTTCCGTTTCTATGAG
CAGTGCCGCAGAGGCAGCAGTGACCCGACAGTGCAACGCTCTGTGTTTGCATCCGTAGACAAGGTGCCAG
GCTTTGCTGTGGCCCAGTGCATAAACCAGCATAGCTCTCCATCCCTGTCATCACCGTCGCCACCATTTGC
CAGTGGGAGCCCTGGTGGCAGTGGAAGCACCAGCCACTGTGACTCAGGAGGCTCTTCCTCTGCACCCTCA
GCAACCCAGAGCCCGGCAGATGCCCCCACGACTCCAGAACAGCCTCAGCCTCACCTAGACCAGTCAGTGA
TTGGGAATGAAATGGATGTCAACTCCAAGCCCAGCAAGAACTCATCGGCCAGGAGCTCTGAGGGGGAGAC
AATGCACCTGTCCCCTAGCCTCCTTCCCGCCCAGCAGCCCACCATCTCCTTGCTCTACGAGGACACTGCT
GACACACTGAGTGTCGAGTCACTGACCATTGTCCCCCCGGTCGATCCCCACAGCCTCCGAGCCCTCTCTG
GCATCTCCCAGCTCCCCACACTGCCTGCAGCAGATACGGAGACCCCAGCTGAGGGTGCTGTAAACCCAGA
GCCTGCGGAACCCACAGAGCACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001204229

Insert Size: 3105 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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_001204229.1, NP_001191158.1

RefSeq Size:	6238 bp
RefSeq ORF:	3105 bp
Locus ID:	74374
UniProt ID:	Q80U30
Cytogenetics:	16 A1
Gene Summary:	Regulator of mitophagy through the upstream regulation of the RNF41/NRDP1-PRKN pathway. Mitophagy is a selective form of autophagy necessary for mitochondrial quality control. The RNF41/NRDP1-PRKN pathway regulates autophagosome-lysosome fusion during late mitophagy. May protect RNF41/NRDP1 from proteosomal degradation, RNF41/NRDP1 which regulates proteosomal degradation of PRKN. Plays a key role in beta cells functions by regulating mitophagy/autophagy and mitochondrial health.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) lacks an exon in the coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (2) is shorter than isoform 1. 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.