

Product datasheet for **MR211453**

Dennd1a (NM_146122) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Dennd1a
Synonyms:	6030446I19Rik; connecdenn
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >MR211453 representing NM_146122
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCTCCAGGATCAAGCAAAACCCAGAGACTACATTTGAAGTGTATGTGGAAGTGGCTTATCCTAGGA
CAGGTGGCACTCTTTCAGATCCTGAGGTGCAGAGGCAATCCCAGAGGACTACAGTGACCAGGAAGTTCT
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AGAGCTGCTTCTGTATCTTAAGCTACCTCCCTGGTTTCGAGGTATTCTATAAGCTCCTTAACATCTTGGC
AGATTACACGACGAAACGACAGGAAAGTCAGTGAATGAACTTCTTGAAACTCTGCACAGACTTCCCATC
CCTGATCCTGGAGTGTCTGTTACCTCAGTGTGCATTCTTACTTCACTGTGCCTGATAGCAGAGAGCTTC
CCAGCATACCTGAGAATAGAAATCTGACAGAATATTTGTGGCTGTGGATGTGAACAACATGTTGCATCT
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CCGTGGAGCAGTCCCGAGACAGTGGGAGACCTTTGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR211453 representing NM_146122

Red=Cloning site Green=Tags(s)

MGSRIKQNPETTFEVYVEVAYPRTGGTLDPEVQRFPEYSDQEVQLTKFCFPFYVDSLTVSQVGQN
FTFVLTDIDSKQRFQFCRLSSGAKSCFCILSYLPWFVEFYKLLNILADYTTKRQESQWNELLETLHRLPI
PDPGVSVHLSVHSYFTVPDSRELPSIPENRNLTEYFVAVDVNNMLHLASMLYERRILIIICKSLSTLTAC
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DLQSLPNDVISSSLKNRLKKVSTTTGDGVARAFLKAQAFFGSGYRNALKIEPEEPIITFSEAFVSHYRSGA
MKQFLQATQLQLFKQFIDGRLDLLNSGEGFSDVFEEIINMGEYAGSDKLYHQWLSTVRKSGSAILNTVK
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TVHFGQVRPPRPHVVRPKSNITVEGRRTSVSSPEQPQPYRTLKESDSAEGDETESPEQLVREPWGPTPA
PPDRAASIDLLEDVFFSSLDVEAPLQPLGQAKSLEDLRAPKDLREQPGSFYQRLDLCSRERGLSMAAALK
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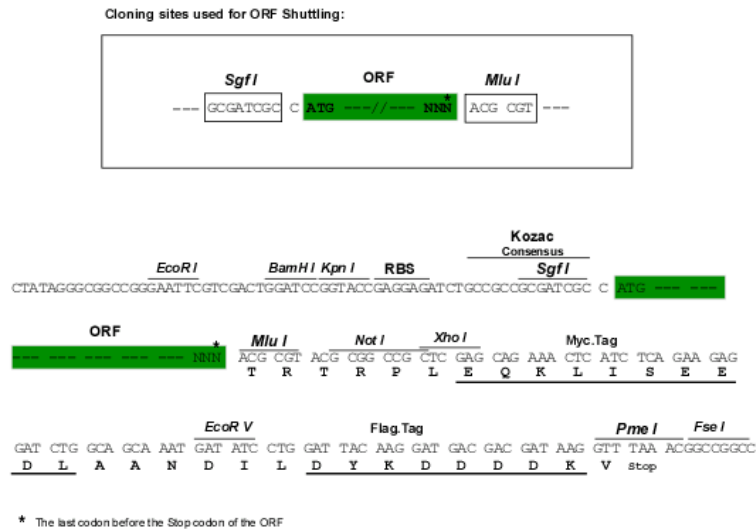
Chromatograms:

https://cdn.origene.com/chromatograms/mm9047_c12.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

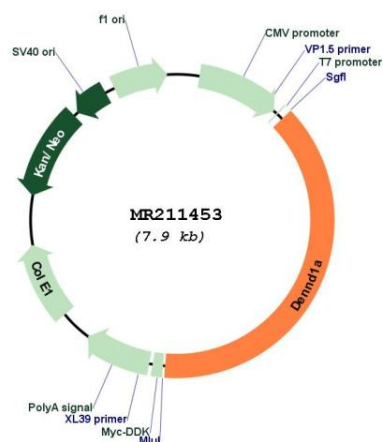
NM_146122

ORF Size:

3048 bp

OTI Disclaimer:	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
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_146122.3 , NP_666234.3
RefSeq Size:	4352 bp
RefSeq ORF:	3051 bp
Locus ID:	227801
UniProt ID:	Q8K382
Cytogenetics:	2 B
MW:	112 kDa
Gene Summary:	Guanine nucleotide exchange factor (GEF) regulating clathrin-mediated endocytosis through RAB35 activation. Promotes the exchange of GDP to GTP, converting inactive GDP-bound RAB35 into its active GTP-bound form. Regulates clathrin-mediated endocytosis of synaptic vesicles and mediates exit from early endosomes (PubMed:17182770, PubMed:20159556). Binds phosphatidylinositol-phosphates (PtdInsPs), with some preference for PtdIns(3)P (PubMed:20159556). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211453