

Product datasheet for RC227213

DENN (MADD) (NM_001135943) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DENN (MADD) (NM_001135943) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MADD
Synonyms:	DEEAH; DENN; IG20; NEDDISH; RAB3GEP; RabGEF
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC227213 representing NM_001135943 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGC**C

ATGGTGCAAAAGAAGAAGTTCTGTCCTCGTTACTTGACTATCTAGTGATCGTAGGGCCAGGCACCCGA
GCAGTGATAGCGTGGCCAGACTCCTGAATTGCTACGGCGATACCCCTTGGAGGATCACACTGAGTTTCC
CCTGCCCCAGATGTAGTGTCTTCTGCCAGCCGAGGGCTGCCTGAGCGTGCGGCAGCGCCGATGAGC
CTTCGGGATGATACCTCTTTGTCTTCACCCTCACTGACAAGGACTGGAGTCACGCGATATGGCATCT
GTGTTAACTTCTACCGCTCCTTCCAAAAGCGAATCTCTAAGGAGAAGGGGAAGGTGGGGCAGGGTCCCG
TGGGAAGGAAGGAACCCATGCCACCTGTGCCTCAGAAGAGGGTGGCACTGAGAGCTCAGAGAGTGGCTCA
TCCCTGCAGCCTCTCAGTGCTGACTCTACCCTGATGTGAACCACTCCTCGGGGCAAACGCCGGGCA
AGGCGGGGAGCCGCTCCCGCAACAGTACTCTCACGTCCCTGTGCGTGCTCAGCCACTACCCTTTCTTCTC
CACCTCCGAGAGTGTGTATACTCTCAAGCGCTGGTGGACTGCTGTAGTGAGCGCCTTCTGGCAAG
AACTGGGCATCCCTCGAGGCGTACAAAGGACACCATGTGGCGGATCTTACTGGATCGCTGCTGGTAG
AGGAGAAGTCAAGTGCCCTTCTGCATGACCTTCGAGAGATTGAGGCCTGGATCTATCGATTGCTCGCCTC
CCCAGTACCCGCTCTGCGGAGAAAGCGAGTAGACATCGAGGTCCTACCCCAAGAGCTCCAGCCAGCTCTG
ACCTTTGCTCTTCCAGACCCATCTCGATTACCCCTAGTGGATTTCCCACTGCACCTTCCCTTGGAACTTC
TAGGTGTGGACGCTGTCTCCAGGTGCTAACCTGCATTCTGTTAGAGCACAAGGTGGTGTACAGTCCC
AGACTACAATGCACTCTCCATGTCTGTGATGGCATTCTGGCAATGATCTACCCACTGGAATATATGTTT
CCTGTCATCCCCTGCTACCCACCTGCATGGCATCAGCAGAGCAGCTGCTGTTGGCTCCAACCCCGTACA
TCATTGGGGTTCTGCCAGCTTCTTCTCTACAACTGGACTTCAAAATGCTGATGATGATGGCTAGT
GGATCTGGACAGCAATAGGGTATTGCCCCACCAATGCAGAAGTGTGCCTATCCTGCCAGAACCAGAA
TCACTAGAGCTGAAAAGCATTTAAAGCAGGCCTTGCCAGCATGAGTCTCAACACCCAGCCCATCTCA
ATCTGGAGAAATTCATGAGGGCCAGGAGATCCCCCTTCTCTTGGGAAGGCCTTCTAATGACCTGCAGTC
CACACCGTCCACTGAATTCACCCACTCATCTATGGCAATGATGTGGATTCTGTGGATGTTGCAACCAGG
GTTGCCATGGTACGGTCTTCAATTCGCCAACGTGCTGCAGGGATTTAGATGCACACGCTACCCCTGC



[View online »](#)

GCCTCTTCTCGGCCTGTGGTAGCTTTTCAAGCTGGCTCCTTCTAGCCTCACGTCCCCGGCAGACTCC
TTTTGCCGAGAAATTGGCCAGGACTCAGGCTGTGGAGTACTTTGGGGAATGGATCCTTAACCCACCAAC
TATGCCTTTCAGCGAATTCACAACAATATGTTTGATCCAGCCCTGATTGGTGACAAGCCAAAGTGGTATG
CTCATCAGCTGCAGCCTATCCACTATCGCGTCTATGACAGCAATCCCAGCTGGCTGAGGCCCTGAGTGT
ACCACCAGAGCGGGACTCTGACTCCGAACCTACTGATGATAGTGGCAGTGATAGTATGGATTATGACGAT
TCAAGCTCTTCTTACTCCTCCCTTGGTGACTTTGTGAGTAAATGATGAAATGTGACATTAATGGTGATA
CTCCAATGTGGACCCCTGACACATGCAGCACTGGGGGATGCCAGCAGGTGGAGATTGACGAGGTGCA
GAATCAGAAGGAAGCAGAAGAGCTGGCCAGACAGTGAGAACTCTCAGGAAAACACCCCACTGCCCTCC
AGCTCTAGCACCCAGCCAGCAGCAGCCCCAGCACTGTATCCACGGAGCCAACCTCTGAACCTGCTGACT
CTACGGAGATGGATGATAAGGCAGCAGTAGGCGTCTCCAAGCCCTCCCTTCCGTGCCTCCCAGCATTGG
CAAATCGAACGTGGACAGACGTGAGGCAGAAATGGAGAGGGGGCTCAAAGCTGCTGCGGCCAACAGC
TTGAGACTGGCAAGTACTCAGATGCAGAGTCACTCTCGGGCAAGCTCTCCAACCTCCACCGTCTCCA
ACACCAGCACCAGGGCTTCGGGGGCATCATGTCTTTGCCAGCAGCCTATCGGAACCCAGTACCAG
CTTCAGTCTTTCAAACCTCACACTGCCACCAAAGGTGCCGAGAGAAGGCCACGCCCTTCCCAGTCTG
AAAGGAAACAGGAGGGCTTAGTGGATCAGAAGTCATCTGTCTTAACACAGCCCAACAGTGAAGAGAG
AACCTCCATACCCCAAGGTCGATCCAGCAATTCTAGTGAGAACCAGCAGTTCCTGAAGGAGGTGGTGCA
CAGCGTCTGGACGGCCAGGGAGTTGGCTGGCTCAACATGAAAAGGTGCGCGGGCTGCTGGAGAGCGAG
CAGCTGCGAGTCTTTGTCTGAGCAAGCTGAACCCGATGGTGCAGTCAAGGACGATGCCCGGCAGGACA
TCATCCCGGATGTGGAGATCAGTCGGAAGGTGTACAAGGGAATGTTAGACCTCCTCAAGTGTACAGTCT
CAGCTTGGAGCAGTCTATGCCACGCGGGTCTGGGTGGCATGGCCAGCATCTTTGGGTTTTTGGAGATT
GCCAGACCCACTACTATAGTAAAGAACCAGACAAGCGGAAGAGAAGTCCAACAGAAAGTGTAAATACCC
CAGTTGGCAAGGATCCTGGCCTAGCTGGCGGGGGACCCAAAGGCTATGGCACAACAGAGTTCCACA
ACTGGACCTCGGGCACCAAGTCCACAGGAAAGGGTCTTAAGGAACTGGACACCAGAAGTTAAAGGAA
GAAAATTTTATAGCATCTATTGGCCTGAAGTAATCAAACCTGTCTTTGACCTTGGTGAGACAGAGGAGA
AAAAGTCCCAGATCAGCGCAGACAGTGGTGTGAGCCTGACGTCTAGTTCAGAGGACTGATCAAGACTC
TGTCATCGGCGTGAGTCCAGCTGTTATGATCCGCAGCTCAAGTCAAGATTCTGAAGTTAGCACCGTGAGT
AATAGCTCTGGAGAGACCCTTGGAGCTGACAGTACTTGGAGCAGCAATGCAGGTGATGGACCAGGTGGCG
AGGGCAGTGTTACCTGGCAAGCTCTCGGGCACTTTGTCTGATAGTAAATGAGACCAACTCTGCCAC
AAGCACTATCTTTGGTAAAGCCACAGCTTGAAGCCAAGCATAAAGGAGAAGCTGGCAGGACGCCCAT
CGTACTCTGAAGATGTGAGCCAGCGAGTCTATCTCTATGAGGGACTCTAGGCAAGAGCGTTCTACTT
TATGGGACCAAATGCAATCTGGGAAGATGCCTTCTTAGATGCTGTGATGTTGGAGAGAGAAGGGATGGG
TATGGACCAGGTCCCCAGGAAATGATCGACAGGTACCTGTCCCTTGGAGAACATGACCCGAAGCGCCTG
GAAGATGATGAAGATCGCTTGGTGGCCACACTTGCACAACCTCATCTCCTACATGCTGCTGATGAAGG
TAAATAAGAATGACATCCGCAAGAAGGTGAGGCGCCTAATGGGAAAGTCGCACATTGGGCTTGTGTACAG
CCAGCAAATCAATGAGGTGCTTATCAGCTGGCGAACCTGAATGGACCGGATCTCTATCTGGTCCAGT
GGCAGCCGGCACATGAAGAAGCAGACATTTGTGGTACATGCAGGGACAGATACAAACGGAGATATCTTTT
TCATGGAGGTGTGCGATGACTGTGTGGTGTGCGTAGTAACATCGGAACAGTGTATGAGCGCTGGTGGTA
CGAGAAGTCAACAATGACCTACTGTCCCAAGACGAAGGTGTTGTGCTTGTGGCGTAGAAATGGCTCT
GAGACCCAGCTCAACAAGTCTATACTAAAAAGTGTGCGGAGCTGACTACTGTGTGAAGGACAGCATGG
AGCGCGCTGCCGCCCAGACGAAAGCATCAAACCCGGACCTGAATTGGGTGGCGAGTTCCTGTGCAGGA
CCTGAAGACTGGTGAAGGTGGCCTGCTGCAAGTACCCTGGAAGGGATCAACCTCAAATTCATGCACAAT
CAGTTTTTCATAGAGCTGAATCACATTAATAAGTGAATACAGTTCGAGGCGTCTTTGTCTGGAGGAAT
TTGTTCTGAAATTAAGAAGTGGTGAAGCACAAGTACAAGACACCAATGGCCACGAAATCTGCTACTC
CGTATTATGTCTTCTCGTACGTGGCTGCAGTTCATAGCAGTGAAGGATCTCAGAACCCCGCCCGG
CCTGTCTTAGC

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC227213 representing NM_001135943
 Red=Cloning site Green=Tags(s)

MVQKKKFCPRLLDYLVIIVGARHPSSDSVAQTEPELLRRYPLEDHTEFPLPPDVVFFCQPEGCLSVRQRMS
 LRDDTSFVFTLTDKDTGVTRYGICVNFYRSFQKRISKEKGEAGSRGKEGTHATCASEEGGTESSESGS
 SLQPLSADSTPDVNQSPRGKRRAKAGSRNRNSTLTSCLVLSHPFFSTFRECLYTLKRLVDCSERLLGK
 KLGIPRGVQRDTMWIRIFTGSLLEEKSSALLHDLREIEAWIYRLLRSPVPVSGQKRVIEVLPQELQPAL
 TFALPDPSPRFTLVDFPLHLPLELLGVDAQLVLTCLLEHKVVLQSRDYNALSMSVMAFVAMIYPLEYMF
 PVIPLLPCTMASAEQLLLAPTPYIIGVPASFLLYKLDKMPDDVWLVDLDSNRVIAPTNAEVLPIPEPE
 SLELKKHLKQALASMSLNTQPIILNLEKFHEGQEIPLLLGRPSNDLQSTPSTEFNPLIYGNVDVSDVATR
 VAMVRFNSANVLQGFQMHTRTLRLFPRPVVAFQAGSFLASRPRTPF AEKLARTQAVEYFGEWILNPTN
 YAFQRIHNNMFDPALIGDKPKWYAHQLQPIHYRVYDSNSQLAEALSVPPERDSDSEPTDDSGSDSMYDD
 SSSYSYSLGDFVSEMMKCDINGDTPNVDPLTHAALGDASEVEIDELQNQKEAEEP GPDSSENSQENTPLRS
 SSSTTASSPSTVIHGANSEPADSTEMDDKAAVGVSKPLPSVPPSIGKSNVDRRQAEIGEGAQKLLRPN
 LRLASDSDAESDRASSPNSTVSNSTSTEGFGGIMSFASSLYRNHSTSFSLSNLTLPTKGAREKATPFPSL
 KGNRRALVDQKSSVIKHSPTVKREPPSQGRSSNSSENQFLKEVHVSVLGDGQGVGLNMKKVRGLLESE
 QLRVFLSKLNRMVQSEDDARQDIIPDVEISRKYKGM DLLKCTVLSLEQSYAHAGLGGMASIFGFLEI
 AQTHYYSKEPDKRKRSPTESVNTPVGKDPGLAGRGDPKAMAQLRVPQLGPRAPSATGKGPKELDTRSLKE
 ENFIASIGPEVIKPVFDLGETEEKSQISADSGVSLTSSSQRTDQDSVIGVSPAVMIRSSSQDSEVSTVS
 NSSGETLGADSDLSSNAGDGGGEGSVHLASSRGTLSDEIETNSATSTIFGKAHSLKPSIKEKLAGSPI
 RTSDEVSRVYLYEGLLGKERSTLWDQMWFEDAFLDVAMLEREGMGMDQGPQEMIDRYLSLGEHDRKRL
 EDDERLLATLLHNLISYMLLMKVNKNDIRKKVRRMLMGKSHIGLVYSQQINEVL DQLANLNGRDL SIWSS
 GSRHMKKQTFVVHAGDTNGDIFFMVCCDCVLRNSNIGTVYERWYKELINMTYCPKTKVLC L WRRNGS
 ETQLNKFYTKKRELYCYVKDSMERAAARQSSIKPGPELGGFFPVQDLKTGEGGLLQVTLEGINLKFMHN
 QVFIELNHIKKCNTVRGVFVLEEFVPEIKEVSHKYKTPMAHEICYSVLC LFSYVAAVHSSEEDLRTPPR
 PVSS

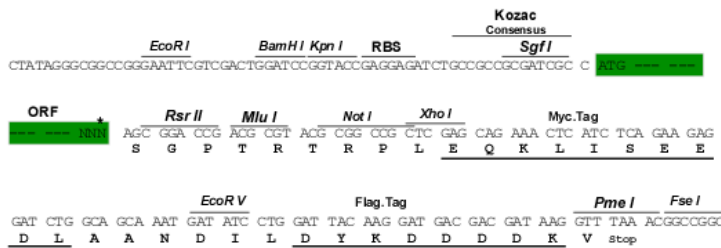
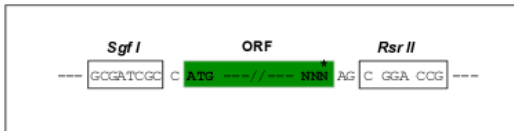
SGP TRTRRLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

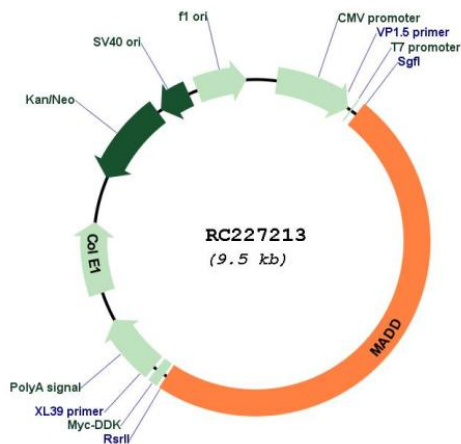
SgfI-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001135943

ORF Size: 4632 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.

RefSeq: [NM_001135943.1](#), [NP_001129415.1](#)

RefSeq ORF: 4635 bp

Locus ID: 8567

UniProt ID: [Q8WXG6](#)

Cytogenetics: 11p11.2

Protein Families: Druggable Genome

MW: 171.1 kDa

Gene Summary: Tumor necrosis factor alpha (TNF-alpha) is a signaling molecule that interacts with one of two receptors on cells targeted for apoptosis. The apoptotic signal is transduced inside these cells by cytoplasmic adaptor proteins. The protein encoded by this gene is a death domain-containing adaptor protein that interacts with the death domain of TNF-alpha receptor 1 to activate mitogen-activated protein kinase (MAPK) and propagate the apoptotic signal. It is membrane-bound and expressed at a higher level in neoplastic cells than in normal cells. Several transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2008]