

## Product datasheet for RC220015

### DENN (MADD) (NM\_130470) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DENN (MADD) (NM_130470) 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:	>RC220015 representing NM_130470 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGC**C

ATGGTGCAAAAGAAGAAGTTCTGTCCTCGTTACTTGACTATCTAGTGATCGTAGGGCCAGGCACCCGA  
GCAGTGATAGCGTGGCCAGACTCCTGAATTGCTACGGCGATACCCCTTGGAGGATCACACTGAGTTTCC  
CCTGCCCCAGATGTAGTGTCTTCTGCCAGCCGAGGGCTGCCTGAGCGTGCGGCAGCGCCGATGAGC  
CTTCGGGATGATACCTCTTTGTCTTCCACCTCACTGACAAGGACTGGAGTACGCGATATGGCATCT  
GTGTTAACTTCTACCGCTCCTTCCAAAAGCGAATCTCTAAGGAGAAGGGGAAGGTGGGGCAGGGTCCCG  
TGGGAAGGAAGGAACCCATGCCACCTGTGCCTCAGAAGAGGGTGGCACTGAGAGCTCAGAGAGTGGCTCA  
TCCCTGCAGCCTCTCAGTGCTGACTCTACCCCTGATGTGAACCACTCCTCGGGGCAAACGCCGGGCA  
AGGCGGGGAGCCGCTCCCGCAACAGTACTCTCACGTCCCTGTGCGTGCTCAGCCACTACCTTTCTTCTC  
CACCTCCGAGAGTGTGTATACTCTCAAGCGCTGGTGGACTGCTGTAGTGAGCGCCTTCTGGCAAG  
AACTGGGCATCCCTCGAGGCGTACAAAGGACACCATGTGGCGGATCTTACTGGATCGCTGCTGGTAG  
AGGAGAAGTCAAGTGCCCTTCTGCATGACCTTCGAGAGATTGAGGCCTGGATCTATCGATTGCTCGCCTC  
CCCAGTACCCGCTCTGGGCAGAAAGCGAGTAGACATCGAGGTCCTACCCCAAGAGCTCCAGCCAGCTCTG  
ACCTTTGCTCTTCCAGACCCATCTCGATTACCCCTAGTGGATTTCCCACTGCACCTTCCCTTGGAACTTC  
TAGGTGTGGACGCTGTCTCCAGGTGCTAACCTGCATTCTGTTAGAGCACAAGGTGGTGTACAGTCCC  
AGACTACAATGCACTCTCCATGTCTGTGATGGCATTCTGGCAATGATCTACCCACTGGAATATATGTTT  
CCTGTCATCCCCTGCTACCCACCTGCATGGCATCAGCAGAGCAGCTGCTGTTGGCTCCAACCCCGTACA  
TCATTGGGGTTCTGCCAGCTTCTTCTCTACAACTGGACTTCAAAATGCTGATGATGTATGGCTAGT  
GGATCTGGACAGCAATAGGGTATTGCCCCACCAATGCAGAAGTGTGCCTATCCTGCCAGAACCAGAA  
TCACTAGAGCTGAAAAGCATTTAAAGCAGGCCTTGGCCAGCATGAGTCTCAACACCCAGCCCATCTCA  
ATCTGGAGAAATTCATGAGGGCCAGGAGATCCCCCTTCTTGGGAAGGCCTTCTAATGACCTGCAGTC  
CACACCGTCCACTGAATTCACCCACTCATCTATGGCAATGATGTGGATTCTGTGGATGTTGCAACCAGG  
GTTGCCATGGTACGGTCTTCAATTCCGCCAACGTGCTGCAGGGATTTAGATGCACACGCGTACCTGC



View online »

GCCTCTTCTCGGCCTGTGGTAGCTTTTCAAGCTGGCTCCTTCTAGCCTCACGTCCCCGGCAGACTCC  
TTTTGCCGAGAAATTGGCCAGGACTCAGGCTGTGGAGTACTTTGGGGAATGGATCCTTAACCCCAAC  
TATGCCTTTCAGCGAATTCACAACAATATGTTTGATCCAGCCCTGATTGGTGACAAGCCAAAGTGGTATG  
CTCATCAGCTGCAGCCTATCCACTATCGCGTCTATGACAGCAATCCCAGCTGGCTGAGGCCCTGAGTGT  
ACCACCAGAGCGGGACTCTGACTCCGAACCTACTGATGATAGTGGCAGTGATAGTATGGATTATGACGAT  
TCAAGCTCTTCTTACTCCTCCCTTGGTGACTTTGTGAGTAAATGATGAAATGTGACATTAATGGTGATA  
CTCCAATGTGGACCCCTGACACATGCAGCACTGGGGGATGCCAGCAGGTGGAGATTGACGAGCTGCA  
GAATCAGAAGGAAGCAGAAGAGCCTGGCCAGACAGTGAGAAGTCTCAGGAAAACCCCACTGCGCTCC  
AGCTCTAGCACCCAGCCAGCAGCAGCCCCAGCACTGTATCCACGGAGCCAACCTCTGAACCTGTGACT  
CTACGGAGATGGATGATAAGGCAGCAGTAGGCGTCTCCAAGCCCTCCCTTCCGTGCCTCCCAGCATTGG  
CAAATCGAACATGGACAGACGTGAGGCAGAAATGGAGAGGGGTGAGTGCAGCCGCGCAATCTATGACAA  
CCATACTTCGAGCCCAATATGGCTTTCCCTGAGGAAGATGAGGATGAGCAGGGGAAAGTTACTCTC  
CCCGATTGAGCCCAATGTCAGTGGCAATCGGGCTCAAAGCTGCTGCGGCCAACAGCTTGAGACTGGC  
AAGTGACTCAGATGCAGAGTCAACTCTCGGGCAAGCTCTCCAACCTCCACCGTCTCCAACACCAGCACC  
GAGGGCTTCGGGGGCATCATGTCTTTTCCAGCAGCCTCTATCGGAACCACAGTACCAGCTTCAGTCTTT  
CAAACCTCACACTGCCCAACAAAGGTGCCGAGAGAAGGCCACGCCCTTCCCAGTCTGAAAGGAAAACAG  
GAGGGCGTTAGTGGATCAGAAGTCATCTGTCATTAACACAGCCCAACAGTGAAGGAGAAACCTCCATCA  
CCCCAGGGTCGATCCAGCAATCTAGTGAGAACCAGCAGTTTCTGAAGGAGGTGGTGACAGCGTGTGG  
ACGGCCAGGGAGTTGGCTGGCTCAACATGAAAAGGTGCGCCGGCTGCTGGAGAGCGAGCAGCTGCGAGT  
CTTTGTCTGAGCAAGCTGAACCGCATGGTGCAGTCAAGGACGATGCCCGCAGGACATCATCCCGGAT  
GTGGAGATCAGTCGGAAGGTGTACAAGGAATGTTAGACCTCCTCAAGTGTACAGTCTCAGCTTGAGC  
AGTCTATGCCACGCGGGTCTGGTGGCATGGCCAGCATCTTTGGCTTTTGGAGATTGCCAGACCCA  
CTACTATAGTAAAGAACCAGACAAGCGGAAGGAAGTCCAACAGAAAGTGAATAACCCAGTTGGCAAG  
GATCCTGGCCTAGCTGGCGGGGGACCCAAGGCTATGGCACAACTGAGAGTTCCACAACCTGGGACCTC  
GGGCACCAAGTGCCACAGGAAAGGTCCTAAGGAACTGGACACCAGAAGTTTAAAGGAAGAAAATTTTAT  
AGCATCTATTGGGCTGAAGTAATCAAACCTGTCTTTGACCTTGGTGAGACAGAGGAGAAAAAGTCCAG  
ATCAGCGCAGACAGTGGTGTGAGCCTGACGTCTAGTCCAGAGGACTGATCAAGACTCTGTCATCGGGC  
TGAGTCCAGCTGTTATGATCCGACGCTCAAGTCAAGTCTGAAGTTAGCACCGTGGTGAGTAAAGCTC  
TGGAGAGACCTTGGAGCTGACAGTACTTGGCAGCAATGCAGGTGATGGACCAGTGGCGAGGGCAGT  
GTTACCTGGCAAGCTCTCGGGCACTTTGTCTGATAGTAAATGAGACCAACTCTGCCACAAGCACCA  
TCTTTGGTAAAGCCACAGCTTGAAGCCAAGCATAAAGGAGAAGCTGGCAGGCAGCCCCATTCTGACTTC  
TGAAGATGTGAGCCAGCGAGTCTATCTCTATGAGGGACTCCTAGGCAAAGAGCGTTCTACTTTATGGGAC  
CAAATGCAATTCTGGGAAGATGCCTTCTTAGATGCTGTGATGTTGGAGAGAGAAGGGATGGGTATGGACC  
AGGGTCCCCAGGAAATGATCGACAGGTACCTGTCCCTTGGAGAACATGACCGGAAGCGCCTGGAAGATGA  
TGAAGATCGCTTGTGGCCACACTTCTGCACAACCTCATCTCCTACATGCTGCTGATGAAGGTAATAAG  
AATGACATCCGCAAGAAGGTGAGGCGCCTAATGGGAAAGTCGCACATTGGGCTTGTGTACAGCCAGCAAA  
TCAATGAGGTGCTTGTACAGTGGCGAACCTGAATGGACGCGATCTCTCTATCTGGTCCAGTGGCAGCCG  
GCACATGAAGAAGCAGACATTTGTGGTACATCGAGGACAGATACAAACGGAGATATCTTTTTCATGGAG  
GTGTGCGATGACTGTGTGGTGTGCGTAGTAACATCGGAACAGTGTATGAGCGTGGTGGTACGAGAAGC  
TCATCAACATGACCTACTGTCCCAAGACGAAGGTGTTGTGCTTGTGGCGTAGAAATGGCTCTGAGACCCA  
GCTCAACAAGTTCTATACTAAAAAGTGTGCGGAGCTGTACTACTGTGTGAAGGACAGCATGGAGCGCGT  
GCCGCCGACAGCAAAGCATCAAACCCGGACCTGAATTGGGTGGCGAGTTCCTGTGACAGACTGAAGA  
CTGGTGAAGGTGGCTGCTGACAGGTGACCTGGAAGGGATCAACCTCAAATTCATGCACAATCAGGTTTT  
CATAGAGCTGAATCACATTAAGGTAACATACAGTTCGAGGCGTCTTTGTCTGGAGGAATTTGTTCTC  
GAAATTAAGAAAGTGGTGAAGCACAAGTACAAGACCAATGGCCACGAAATCTGCTACTCCGTATTAT  
GTCTCTCTCGTACGTGGCTGCAGTTCATAGCAGTGAAGATCTCAGAACCCCGCCCGCCTGTCTC  
TAGC

AGCGGACCGACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC220015 representing NM\_130470  
 Red=Cloning site Green=Tags(s)

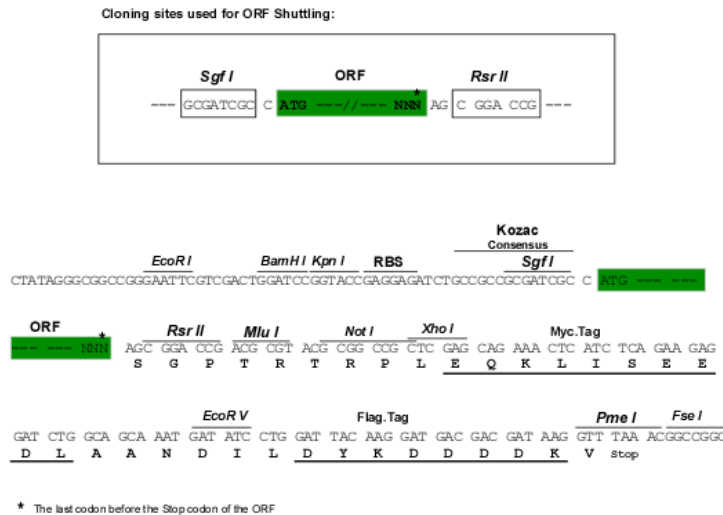
MVQKKKFCPRLLDYLVIIVGARHPSSDSVAQTEPELLRRYPLEDHTEFPLPPDVVFFCQPEGCLSVRQRMS  
 LRDDTSFVFTLTDKDTGVTRYGICVNFYRSFQKRISKEKGEAGSRGKEGTHATCASEEGGTESSESGS  
 SLQPLSADSTPDVNQSPRGKRRAKAGSRSRNSTLTSCLVLSHYPPFFSTFRECLYTLKRLVDCSERLLGK  
 KLGIPRGVQRDTMWIRIFTGSLLEEKSSALLHDLREIEAWIYRLLRSPVPVSGQKRVDIQELQPAL  
 TFALPDPSPRFTLVDFPLHLPLELLGVDAQLVLTCLLEHKVVLQSRDYNALSMSVMAFVAMIYPLEYMF  
 PVIPLPTCMASAEQLLLAPTPYIIGVPASFLLYKLDKMPDDVWLVDLDSNRVIAPTNAEVLPIPEPE  
 SLELKKHLKQALASMSLNTQPIILNLEKFHEGQEIPLLLGRPSNDLQSTPSTEFNPLIYGNVDVSDVATR  
 VAMVRFNSANVLQGFQMHTRTLRLFPRPVVAFQAGSFLASRPRQTPFAEKLARTQAVEYFGWILNPTN  
 YAFQRIHNNMFDPALIGDKPKWYAHQLQPIHYRVYDSNSQLAEALSVPPERDSDSEPTDDSGSDSMYDD  
 SSSYSYSLGDFVSEMMKCDINGDTPNVDP LTHAALGDASEVEIDELQNQKEAEEPDPSENSQENPLRS  
 SSSTTASSPSTVIHGANSEPADSTEMDDKAAVGVSKPLPSVPPSIGKSNMRRQAEIGEGSVRRRIYDN  
 PYFEPQYGFPEEDEDQGESYTPRFSQHVSGNRAQKLLRPNSLRASDSDAESDRASSPNSTVNTST  
 EFGGGIMSFASSLYRNHSTSFSLSNLTLPTKGAKEKATPFPSLKGNNRALVDQKSSVIKHSPTVKREPPS  
 PQGRSSNSSENQFLKEVHVSVDGQGVWLNMKVRRLLLESEQLRVFVLSKLNRMVQSEDDARQDIIPD  
 VEISRKYVKGMLDLLKCTVLSLEQSYAHAGLGGMASIFGLLEIAQTHYYSKEPDKRKRSPTESVNTPVGK  
 DPGLAGRGDPKAMAQLRVPQLGPRASATGKGPKELDTRSLKEENFIASIGPEVIKPVFDLGETEEKSQ  
 ISADSGVSLTSSSQRTDQDSVIGVSPAVMIRSSSQDSEVSTVVSNSSGETLGADSDLSSNAGDGPGGEGS  
 VHLASSRGTLDSEIETNSATSTIFGKAHSLKPSIKEKLAGSPIRTSEDVSQRVLYEGLLGKERSTLWD  
 QMQFWEDAFLDVMLEREGMGMDQGPQEMIDRYLSLGEHDKRLEDEDEDRLATLLHNLISYMLLMKVNK  
 NDIRKKVRRMLMGKSHIGLVYSQQINEVLQDLANLNGRDL SIWSSGSRHMKKQTFV VHAGTDTNGDIFME  
 VCDDCVVLRSNIGTVYERWYWEKLINMTCYCPKTKVLCVLRWRRNGSETQLNKFYTKKCRELYYCVKDSMERA  
 AARQSSIKGPPELGGEFPVQDLKTGEGLLQVTLEGINLKFHMNQVFIELNHIKKCNTVRGVFVLEEFVP  
 EIKEVVSCHKYKTPMAHEICYSVLCCLFSYVAVHSSEEDLRTPRPVSS

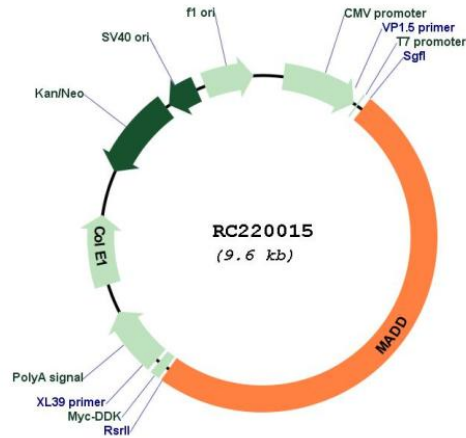
SGPTRRRL**EQKLISEEDLAANDILDYKDDDDK**V

**Restriction Sites:**

SgfI-RsrII

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_130470

**ORF Size:** 4764 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\\_130470.1](#), [NP\\_569826.1](#)

RefSeq Size: 5973 bp

RefSeq ORF: 4767 bp

Locus ID: 8567

UniProt ID: [Q8WXG6](#)

Cytogenetics: 11p11.2

Protein Families: Druggable Genome

MW: 176.4 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]