

## Product datasheet for **MR212151**

### **DII4 (NM\_019454) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DII4 (NM_019454) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DII4
Synonyms:	Delta4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide  
Sequence:**

>MR212151 representing NM\_019454  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACGCCTCGTCCCGAGCGCCTGTCGCTGGCGCTACTGCTGCTGGCGGTACTGTGGCCGAGCAGC  
 GCGCTGCGGGCTCCGGCATCTTCCAGCTGCGGCTGCAGGAGTTCGTCAACCAGCGCGGTATGCTGGCCAA  
 TGGGCAGTCTCGGAACCGGGCTGCCGGACTTTCTCCGCATTTGCCTTAAGCACTTCCAGGCAACCTTC  
 TCCGAGGGACCCTGCACCTTTGGCAATGTCTCCACGCCGGTATTGGGCACCAACTCCTTCGTCGTCAGGG  
 ACAAGAATAGCGGCAGTGGTCGCAACCTCTGCAGTTGCCCTTCAATTTACCTGGCCGGGAACCTTCTC  
 ACTCAACATCCAAGCTTGGCACACCGGGAGACGACCTGCGGCCAGAGACTTCGCCAGGAACTCTCTC  
 ATCAGCCAAATCATCATCAAGGCTCTCTTGTGTGGGTAAAGTTTGGCGAACAGACGAGCAAAATGACA  
 CCCTCACCAGACTGAGCTACTCTTACCGGGTATCTGCAGTGACAACACTATGGAGAGAGCTGTTCTCG  
 CCTATGCAAGAAGCGGATGACCACTTCGGACATTATGAGTGCCAGCCAGATGGCAGCCTGCTCGCTG  
 CCGGGCTGGACTGGGAAGTACTGTGACCAAGCCTATATGTCTTTCTGGCTGTCATGAGCAGAATGGTACT  
 GCAGCAAGCCAGATGAGTGCATCTGCCGTCCAGGTTGGCAGGGTGCCTGTGCAATGAATGTATCCCCCA  
 CAATGGCTGTCGTATGGCACCTGCAGCATCCCCCTGGCAGTGTGCTGCGATGAGGGATGGGGAGGTCTG  
 TTTTGTGACCAAGATCTCAACTACTGTACTCACCCTCTCCGTGCAAGAATGGATCAACGTGTTCCAACA  
 GTGGGCCAAAGGGTTATACCTGCACCTGTCTCCAGGCTACACTGGTGGAGCACTGTGAGCTGGGACTCAG  
 CAAGTGTGCCAGCAACCCCTGTGCAAAATGGTGGCAGCTGTAAGGACCAGGAGAATAGCTACCACTGCCTG  
 TGTCCCCAGGCTACTATGGCCAGCACTGTGAGCATAGTACCTTGACCTGTGCGGACTCACCTGCTTCA  
 ATGGGGGCTCTTGCCGGGAGCGCAACCAGGGTCCAGTTATGCCGTGCAATGCCCCCAACTTTACCGG  
 CTCTAACTGTGAGAAGAAAGTAGACAGGTGTACCAGCAACCCGTGTGCCAATGGAGGCCAGTGCCTGAAC  
 AGAGGTCCAAGCCGAACCTGCCGCTGCCGGCTGGATTACAGGCACCCACTGTGAACTGCACATCAGCG  
 ATTGTGCCGAAGTCCCTGTGCCACGGGGCACTTGCCACGATCTGGAGAATGGGCCTGTGTGCACCTG  
 CCCCCTGGCTTCTCTGGCAGGCGCTGCGAGGTGCGGATAAACCACGATGCCTGTGCTCCGGACCCTGC  
 TTCAATGGGGCCACCTGCTACACTGGCCTCTCCCCAAACAACCTTCGTCTGCAACTGTCTTATGGCTTTG  
 TGGGCAGCGCTGCGAGTTTCCCGTGGGCTTGCCACCCAGCTTCCCTGGGTAGCTGTCTCGCTGGGCGT  
 GGGGCTAGTGGTACTGCTGGTGTGCTGGTTCATGGTGGTGTGGCTGTGCGGCAGCTGCGGCTTCGGAGG  
 CCCGATGACGAGAGCAGGGAAGCCATGAACAATCTGTCAGACTTCCAGAAGGACAACCTAATCCCTGCCG  
 CCCAGCTCAAAAACACAACCCAGAAGAAGGAGCTGGAAGTGGACTGTGGTCTGGACAAGTCCAATTGTGG  
 CAAACTGCAGAACCACACATTGGACTACAATCTAGCCCCGGGACTCCTAGGACGGGGCAGCATGCCTGGG  
 AAGTATCCTCACAGTGACAAGAGCTTAGGAGAGAAGGTGCCACTTCGGTTACACAGTGAGAAGCCAGAGT  
 GTCGAATATCAGCCATTTGCTCTCCAGGGACTCTATGTACCAATCAGTGTGTTTGATATCAGAAGAGAG  
 GAACGAGTGTGTGATTGCCACAGAGGTA

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR212151 representing NM\_019454  
Red=Cloning site Green=Tags(s)

MTPASRSACRWALLLLAVLWPQRAAGSGIFQLRLQEFVNQRGMLANGQSCEPGCRTFFRICLKHFAQTF  
 SEGPCTFGNVSTPVLGTNSFVVRDKNSGSGRNPLQLPFNFTWPGTFSLNIQAWHTPGDDLRPETSPGNLS  
 ISQIIIQGSLAVGKIWRTEQNDLTRLSSYRVICSDNYYGESCSRLCKKRDDHFGHYEQPDGSLSCL  
 PGWTGKYCDQPICLSGCHEQNGYCSKPDEICRPGWQGRLCNECIPHNGCRHGTCIPWQCACDEGWGGL  
 FCDQDLNYCTHHSCKNGSTCSNSGPKGYTCTCLPGYTGEHCELGLSKCASNPCRNGGSKDQENSYHCL  
 CPPGGYQHQHEHSTLTCADSPCFNGGSCRERNQGSYACEPPNFTGSNCEKKVDRCTS NPCANGQCLN  
 RGPSRTCRCPGFTGTHCELHISDCARSPCAHGGTCHDLENGPVCTCPAGFSGRRCEVRITHDACASGPC  
 FNGATCYTGLSPNNFVCNCPYGFVGSRCFFVGLPPSFPWVAVSLGVGLVLLVLLVMVVAVRQLRLRR  
 PDDESREAMNNLSDFQKDNLIPAAQLKNTNQKKEVDCGLDKSNCGKLNHTLDYNLAPGLLGRGSMPLG  
 KYPHSDKSLGEKVPLRLHSEKPECRISAICSPRDSMYQSVCLISEERNECVIATEV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_019454

**ORF Size:** 2058 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\\_019454.2](#), [NP\\_062327.1](#)

**RefSeq Size:** 3426 bp

**RefSeq ORF:** 2061 bp

**Locus ID:** 54485

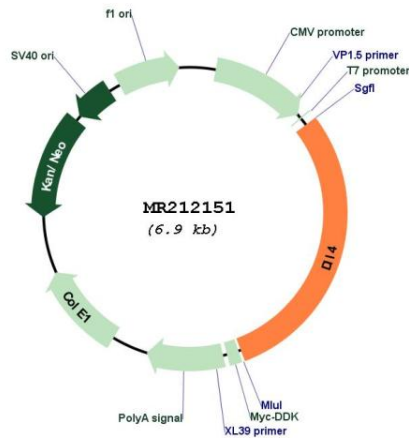
**UniProt ID:** [Q9JL71](#)

**Cytogenetics:** 2 E5

**MW:** 75.4 kDa

**Gene Summary:** Involved in the Notch signaling pathway as Notch ligand (PubMed:11134954). Activates NOTCH1 and NOTCH4. Involved in angiogenesis; negatively regulates endothelial cell proliferation and migration and angiogenic sprouting (By similarity). Essential for retinal progenitor proliferation. Required for suppressing rod fates in late retinal progenitors as well as for proper generation of other retinal cell types (PubMed:22323600). During spinal cord neurogenesis, inhibits V2a interneuron fate (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR212151