

Product datasheet for **RN208934**

DII4 (NM_001107760) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DII4 (NM_001107760) Rat Untagged Clone
Tag:	Tag Free
Symbol:	DII4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >RN208934 representing NM_001107760
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACGCCTGGGTCCCGAGCGCCTGTCGCTGGGCGCTACTGCTGCTGGCGGTCTCTGGCCGACGCGG
CGGCGGGCTCCGGCATCTCCAGTTGCGGCTGCAGGAGTTCGCCAACGAGCGCGGTATGCTGGCCAATGG
GCGGCCCTGCGAGCCCGGCTGCCGGACTTCTTCCGAATCTGCCTTAAGCATTACCAGGCAACCTTCTCC
GAGGGACCCTGCACCTTTGGCAATGTCTCCACGCCGATTGGGCACCAACTCCTTCGTCATCAGGGACA
AGAATAGCGGCAGTGGTCGTAACCCTTCAATTGCCCTTCAATTTTACCTGGCCGGGAACCTTCTCACT
CAACATCCAAGCTTGGCACACGCCGGGAGACGACCTGCGGCCAGAGACTTCACCAGGAAATTCATTATC
AGCCAAATCATCATCAAGGCTCCCTTGTGTGGGTAAGAATTGGAAATCAGATGAGCAAATAACACCC
TACAAGACTGCGCTACTTACCAGGTCGTCTGCAGCGACAACACTATGGAGATAGCTGTTCTCGCCT
GTGCAAGAAGCGGATGACCACTTCGGACATTATGAGTGCCAACCAGATGGCAGCCTGCTCTGCCTGCCG
GGCTGGACTGGGAAATACTGTGATCAGCCTATATGTCTTCTGGCTGTATGAGCAGAATGGCTACTGCA
GCAAGCCAGATGAGTGCAACTGCCGTCCAGTTGGCAGGGCCCTTATGCAATGAATGTATCCCCACAA
TGGCTGTGTCATGGCACCTGCACCATCCCCTGGCAATGTGCCTGCGATGAGGGCTGGGGAGGTCTGTTT
TGTGACCAAGATCTAATTACTGCACTCACCCTCTCCGTGCAAGAATGGATCAACTTGCTCCAACAGTG
GGCCGAGGGGCTATACCTGCACCTGTCTCCAGGCTACACTGGTGGAGCTGTGAGCTGGAACCTCAGCAA
GTGTGCCAGCAACCCCTGTGCAATGGTGGCAGCTGAAGGACCATGAGAATAGCTACCCTGCCTGTGT
CCCCGGGCTACTATGGCCAGCACTGTGAACACAGTACCTTGACCTGTGCGGATTACCCCTGCTTCAATG
GAGGCTCTGCCGGGAGCGCAACCAGGGGGCCAGTTATGCCTGCGAGTGTCCCCCTAATTCCTCACTGGGTC
CAACTGTGAGAAGAAAGTTGACAGGTGTACCAGCAACCCCTGTGCAATGGAGGTCAGTGCCTGAACAGA
GGTCCAAGCCGGACCTGCCGCTGTCGACCTGGATTACAGGCACCCACTGTGAACTGCACATCAGCGATT
GTGCCGAAGCCCTTGTGCCATGGGGCCTTGGCACGATCTGGAGAACGGGCTGTGTGCACCTGCC
TGCTGGCTTTTCTGGCAGGCGCTGCGAGGTGCGGATAACCAACGACGCCTGTGCCTCAGGACCCTGCTTC
AATGGGGCCTTGTACTACTGGCCTCTCCCAAACAATTTGTCTGCAACTGTCCTTATGGCTTTGTGG
GCAGCCGCTGCGAGTTTCCCGTGGGCTTGCACCCAGCTTCCCCTGGGTAGCTGTCTCCCTGGGTGTGG
GCTGGTGGTACTGCTGGTGTGCTGGTCATGGTGGCAGTGGCTGTGCGGCAGCTGCGGCTTCGGAGGCC
GATGACGACAGCAGGGAAGCCATGAACAATTTGTCAGACTTCCAGAAGGACAACCTAATCCCTGCTGCC
AGCTCAAGAACACAACCAGAAGAAGGAGCTGGAAGTGGATTGTGCCTGGACAAGTCCAACCTGTGGCAA
ACTGCAGAACCACACTGGACTATAATCTGGCCCCAGGATTCCTGGGGCGGGGAGCACGCTGGGAAG
TATCCTCACAGCGACAAGAGTTTAGGAGAGAAGGTGCCACTTCGGTTACACAGTGAAGCCGGCATGTC
GAATATCAGCGATATGCTCCCCAGGACTCTATGTACCAGTCAGTATGTTTGATATCAGAAGAGAGGAA
CGAATGTGTCATTGCCACAGAGGTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1756_d07.zip

Restriction Sites: SgfI-MluI

ACCN: NM_001107760

Insert Size: 2058 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_001107760.1](#), [NP_001101230.1](#)

RefSeq Size: 3409 bp

RefSeq ORF: 2058 bp

Locus ID: 311332

Cytogenetics: 3q35

Gene Summary: Involved in the Notch signaling pathway as Notch ligand. Activates NOTCH1 and NOTCH4 (PubMed:25700513). Involved in angiogenesis; negatively regulates endothelial cell proliferation and migration and angiogenic sprouting. 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. During spinal cord neurogenesis, inhibits V2a interneuron fate (By similarity).[UniProtKB/Swiss-Prot Function]