

Product datasheet for **MR209711**

Dlat (NM_145614) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dlat (NM_145614) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dlat
Synonyms:	6332404G05Rik; DLTA; PDC-E2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR209711 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGTGGCGCTGTGTGCGGAGGGCGCGGAGTGTGTGCCAGGGATGGTTTCAGGGCTCGGTGGCGG
CCTTGAAGGAAGCCCCGGGGCCCCATGCGGGAGCCCGCGGATTGGCCCCGCTGCGGTCCGTTGCGGTAG
TGGGATCCCCCGCTATGGGGTCCGCTCCTTGTGCGGCTGGAGCTCCGGCTCCGGCACTGTCCCGCTAAC
CGTTGTGCGACAACCTCTGGGGTCCGCCAGCCCGCTCTTACAGCCTCCCTCCGCATCAGAAGGTTT
CATTACCTTCCCTTCCCTACAATGCAGGCAGGCACCATAGCCCGCTGGGAAAAAAAAAAGAGGGGAAAA
AATCAGTGAGGGTGATCTAATTGCAGAGGTTGAAACTGATAAAGCCACTGTTGGGTTTGGAGCCTGGAG
GAGTGCTATATGGCCAAGATCCTTGTTCCTGAAGGGACCAGAGATGTTCCAGTTGGGTCCATCATCTGTA
TCACAGTTGAAAAGCCTCAGGATATTGAGGCCTTAAAAATTATACATTGGATTTGGCGGCGGCAGCTGC
CCCACAGGCAGCCCCAGCTGCAGCCCCAGCTCCAGCTGCTGCCAGCGGCACCTTCTGCAAGCGCTCCC
GGTAGCTCCTATCCTACTCATATGCAGATTGTTCTTCTGCCCTCTCCCAACCATGACCATGGGCACGG
TCCAGAGGTGGGAAAAGAAAGTGGGCGAGAAGCTGAGTGAAGGAGACTTCTGGCAGAGATAGAGACCGA
CAAGGCCACCATAGGCTTTGAAGTACAAGAAGAAGGTTATCTGGCAAAAATCCTGGTCCCTGAAGGCACA
AGGGATGTTTCTCTGGGAGCTCCACTATGTATCATAGTAGAAAAACAGGAAGATATAGCAGCATTTCAG
ACTACAGGCCAACAGAAGTGACCAGCTTAAAGCCACAGGCAGCACCACCTGCCCAACCCCGGTGGCAGC
TGTTCTCCCACTCCCAGCCTGTAGCACCTACCCCTCAGCTGCTCCTGCTGGACCAAGGGAAGGGTG
TTCGTTAGTCTCTTGCAGAAGAAGTTGGCAGCAGAGAAAGGATTGACCTCACCAAGTTAAAGGGACGG
GACCAGAAGGCAGAATCATCAAGAAGGACATTGACTCTTTTGTGCCTTCTAAGGCTGCTCCTGTCAGC
AGCTGCCATGGCTCCCCGGGTCCAAGAGTGGCACCAGCTCCTGCAGGTGTCTTACAGACATCCCATC
AGCAACATTTCGTCGAGTGATTGCGCAGAGGCTCATGCAGTGAAGCAGACTATACCTCATTATTACCTTT
CTGTGATGTAATATGGGAGAGGTGCTGTTGGTACGGAAGGAACCTAATAAGATGCTTGAAGGAAAGG
GAAAATCTCCGTCAACGACTTCAATAAAGGCTTCAGCTTTGGCCTGTCTGAAAGTTCCCGAAGCAAAC
TCGTCTTGGATGGACACAGTTATAAGGCAAAATCATGTGGTTGACGTGAGTGTGCTGTCAGTACCCCTG
CAGGACTTATCACCCCTATTGTGTTAATGCACACATAAAAGGACTGGAAACCATTGCTAGTGATGTTGT
TTCTTTAGCTCCAAAGCGAGAGAGGGTAAACTTCAGCCTCATGAGTTCAGGGTGAACATTTACAATC
TCCAACCTAGGGATGTTTGAATTAAGAATTTCTCTGCAATTATTAATCCACCTCAGGCATGATTTCTGG
CAATCGGTGCTTCAGAGGATAAACTGATCCAGCAGATAATGAGAAAGGCTTTGATGTGGCTAGTGTGAT
GTCCGTTACACTCAGCTGTGATCATCGAGTTGTGGATGGAGCAGTTGGAGCCAGTGCTTGTGAATTC
AAAAAGTACCTTAAAAGCCTATAACTATGTTGTTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR209711 protein sequence
Red=Cloning site Green=Tags(s)

MWRVCARRARSAYPRDGFRRWAALKEGPGAPCGSPRIGPAAVRCGSGIPRYGVRSLCGWSSGSGTVPRN
 RLLRQLLGGSPRRSYSLPPHQVPLPSL SPTMQAGTIARWEKKEGEKISEGDLIAEVETDKATVGFESLE
 ECYMAKILVPEGTRDVPVGSIIICITVEKPQDIEAFKNYTLDLAAAAAPQAAPAAAPAAAAAPSASAP
 GSSYPHMQIIVLPAL SPTMTMGTVQRWEKKVGEKL SEGDLLAEIETDKATIGFEVQEEGYLAKILVPEGT
 RDVPLGAPLCIIIEKQEDIAAFADYRPTVTS LKPQAAPPAPPPVAAVPPTPQPVAPTPSAAPAGPKGRV
 FVSPLAKKLAAEKGIDL TQVKGTGPEGRIIKKDIDSFVPSKAAPAAAAAMAPPGPRVAPAPAGVFTDIPI
 SNIRRVIAQRLMQSKQTI PHYYLSVDVNMGEVLLVRKELNKMLEGKGISVNDFI I KASALACLKVPEAN
 SSWMDTVIRQNHVVDVSVAVSTPAGLITPIVFN AHIKGL ETIASDVVSLASKAREGKLQPHEFQGGTFTI
 SNLGMFGIKNFSAIINPPQACILAI GASEDKLIPADNEKGF DVASVMSVTLSCDHRVVDGAVGAQWLAEF
 KKYLEKPITMLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_145614

ORF Size: 1929 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_145614.4](#)

RefSeq Size: 4051 bp

RefSeq ORF: 1929 bp

Locus ID: 235339

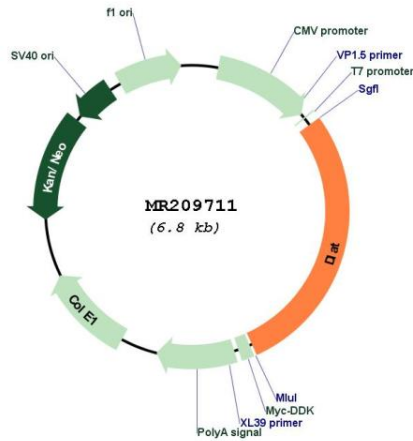
UniProt ID: [Q8BMF4](#)

Cytogenetics: 9 A5.3

MW: 67.9 kDa

Gene Summary: The pyruvate dehydrogenase complex catalyzes the overall conversion of pyruvate to acetyl-CoA and CO(2), and thereby links the glycolytic pathway to the tricarboxylic cycle. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209711