

Product datasheet for MR204598

Dera (NM_172733) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dera (NM_172733) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dera
Synonyms:	2010002D22Rik; 2500002K03Rik; DEOC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204598 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGCTCACTGCCGGGCACAGAGCTCGATCTTAGCTGGATCTCAAAGTTCAAGTGAATCACGCAG
CTGTGCTGAGGCGGGCCAGCAGATCCAGGCTCGCAGAAGCGTGAAGAAGGAATGCCAGGCTGCGTGGCT
CCTGAAAGCTGTCAGTTTATAGATCTTACCACGCTTTCTGGCGATGACACGTTTTCCAACGTTCAACGA
CTCTGTTATAAAGCCAAATATCCAATCCGGGCAGACCTCTAAAAGCTTTAAATATGGATGACAAAGGCA
TACCACAGCTGCAGTCTGCGTTTATCCCGCCCGGTGTGCGACGCTGTGAAGGCGCTGAAGGCTGCGGG
CTGCAGCATCCCCGTGGCCTCAGTGGCCACTGGCTTTCAGCTGGACAGACTCATTTAAAGACTCGATTG
GAAGAGATCAGACTGGCCGTGGAGGATGGAGCTACTGAAATTGACGTGGTCATTAAACAGGACCTTGGTGC
TGACGGGCCAGTGGGAAGCTCTCTACGATGAGGTCACTCAGTTTTCGAAAGGCCTGTGGCGAGGCCATCT
CAAACCATCCTAGCTACGGGCGAACTGGGCTCTCACCAACGTCTACAAAGCCAGCCTGGTAGCGATG
ATGGCAGGATCAGATTTTATAAGACCTCTACTGGAAAGGAAACAGTAAACGCCACCTTCCCAGTCGCCA
TCGTGATGCTGCGGGCCATTAGAGATTTCTTCTGGAAAAGTGGAAACAAGGTGGGCTTCAAGCCTGCCG
AGGCATCCGACTGCAAAGGAGTCCCTGGCGTGGCTCTCCCTGGTCAAGGAGGAACTAGGAGATGAGTGG
CTGACGCTGACCTTTCCGGATAGGGGCCAGTTCTCTGCTCTCAGACATCGAGAGACAGATTTACCATC
ACGTGACTGGACGCTACGCGGCTTATCATGATCTCCGATGTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204598 protein sequence
 Red=Cloning site Green=Tags(s)

MAAHCRTGTELDLSWISKVQVNHAAVLRRAQQIQARRSVKKEWQAAWLLKAVTFIDLTTLSGDDTFSNVQR
 LCYKAKYPIRADLLKALNMDKGITTAAVCVYPARVCDVAVKALKAAGCSIPVASVATGFAGQTHLKTRL
 EEIRLAVEDGATEIDVVINRTLVLVTGQWEALYDEVTFQFRKACGEAHLKITLATGELGSLTNVYKASLVAM
 MAGSDFIKTSTGKETVNATFPVAIVMLRAIRDFFWKTGNKVGFKPAGGIRTAKESLAWLSLVKEELGDEW
 LTPDLFRIGASSLLSDIERQIYHHVTGRYAAYHDLPMSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_172733

ORF Size: 957 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_172733.1](#), [NP_766321.1](#)

RefSeq Size: 1688 bp

RefSeq ORF: 957 bp

Locus ID: 232449

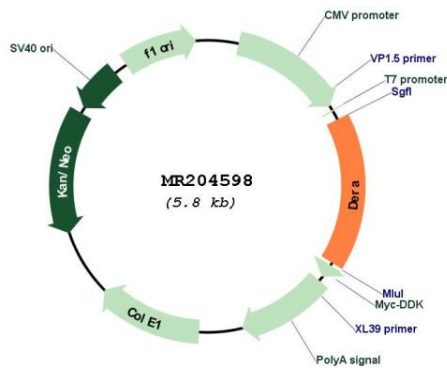
UniProt ID: [Q91YP3](#)

Cytogenetics: 6 G1

MW: 35 kDa

Gene Summary: Catalyzes a reversible aldol reaction between acetaldehyde and D-glyceraldehyde 3-phosphate to generate 2-deoxy-D-ribose 5-phosphate. Participates in stress granule (SG) assembly. May allow ATP production from extracellular deoxyinosine in conditions of energy deprivation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204598