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Product datasheet for MG204598

Dera (NM_172733) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dera (NM_172733) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dera
Synonyms:	2010002D22Rik; 2500002K03Rik; DEOC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG204598 representing NM_172733
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGCTCACTGCCGGGGCACAGAGCTCGATCTTAGCTGGATCTCCAAAGTTCAAGTGAATCACGCAG
CTGTGCTGAGGCGGGCCCAGCAGATCCAGGCTCGCAGAAGCGTGAAGAAGGAATGGCAGGCTGCGTGGCT
CCTGAAAGCTGTCACGTTTATAGATCTTACCACGCTTTCTGGCGATGACACGTTTTCCAACGTTCAACGA
CTCTGTTATAAAGCCAAATATCCAATCCGGGCAGACCTCTTAAAAGCTTTAAATATGGATGACAAAGGCA
TCACCACAGCTGCAGTCTGCGTTTATCCCGCCCGGGTGTGCGACGCTGTGAAGGCGCTGAAGGCTGCGGG
CTGCAGCATCCCCGTGGCCTCAGTGGCCACTGGCTTTCCAGCTGGACAGACTCATTTAAAGACTCGATTG
GAAGAGATCAGACTGGCCGTGGAGGATGGAGCTACTGAAATTGACGTGGTCATTAACAGGACCTTGGTGC
TGACGGGCCAGTGGGAAGCTCTCTACGATGAGGTCACTCAGTTTCGAAAGGCCTGTGGCGAGGCCCATCT
CAAAACCATCCTAGCTACGGGCGAACTGGGCTCTCTCACCAACGTCTACAAAGCCAGCCTGGTAGCGATG
ATGGCAGGATCAGATTTTATTAAGACCTCTACTGGAAAGGAAACAGTAAACGCCACCTTCCCAGTCGCCA
TCGTGATGCTGCGGGCCATTAGAGATTTCTTCTGGAAAACTGGAAACAAGGTGGGCTTCAAGCCTGCCGG
AGGCATCCGCACTGCAAAGGAGTCCCTGGCGTGGCTCTCCCTGGTCAAGGAGGAACTAGGAGATGAGTGG
CTGACGCCTGACCTCTTCCGGATAGGGGCCAGTTCTCTGCTCTCAGACATCGAGAGACAGATTTACCATC
ACGTGACTGGACGCTACGCGGCTTATCATGATCTTCCGATGTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

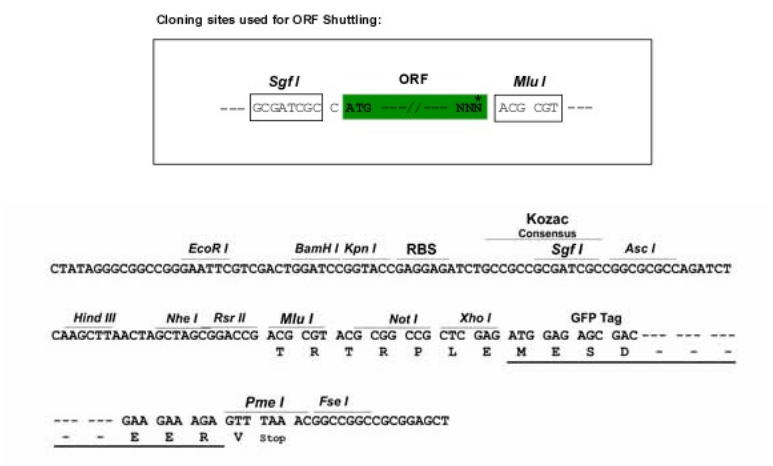
>MG204598 representing NM_172733
Red=Cloning site Green=Tags(s)

MAAHCRGTELDLSWISKVQVNHAAVLRRAQQIQARRSVKKEWQAAWLLKAVTFIDLTTLSGDDTFSNVQR
LCYKAKYPIRADLLKALNMDDKGITTAAVCVYPARVCDAVKALKAAGCSIPVASVATGFPAGQTHLKTRL
EEIRLAVEDGATEIDVVINRTLVLTGQWEALYDEVTQFRKACGEAHLKTILATGELGSLTNVYKASLVAM
MAGSDFIKTSTGKETVNATFPVAIVMLRAIRDFFWKTGNKVGFKPAGGIRTAKESLAWLSLVKEELGDEW
LTPDLFRIGASSLLSDIERQIYHHVTGRYAAYHDLPMS

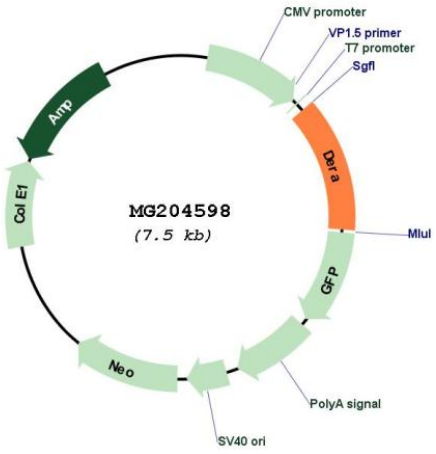
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_172733

ORF Size: 954 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
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]