

Product datasheet for **RG237096**

DERA (NM_001300779) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DERA (NM_001300779) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DERA
Synonyms:	CGI-26; DEOC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237096 representing NM_001300779. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCCGCGCACAAATCGGGGCACCGAGCTCGACCTTAGCTGGATCTCCAAAATACAAGTGAATCACCCG
GCAGTTCTGAGGCGTGCGGAACAAATCCAGGCTCGCAGAACCGTGAAAAAGGAGTGGCAGGCTGCTTGG
CTCCTGAAAGCTGTTACCTTTATAGATCTTACTACACTTTCAGGTGATGATACATCTTCCAACATTCAA
AGGCTCTGTTATAAAGCCAAATACCCAATCCGGGAAGATCTCTTAAAAGCTTTAAATATGCATGATAAA
GGCATTACTACAGCCGCGTTTGTGTTATCCCGCCGGGTGTGTGATGCTGTAAAAGCACTCAAGGCT
GCAGGCTGTAATATCCCTGTGGCATCAGTGCCCGCTGGATTTCCAGCTGGACAGACTCATTGAAGACA
CGATTAGAAGAGATCAGATTGGCTGTGGAAGATGGAGCTACAGAAATCGACGTGGTAATTAACAGAAGC
TTGGTGCTGACAGGCCAGTGGGAAGGATCAGATTTTATAAGACCTCTACTGGAAAAAGAAACAGTAAAT
GCCACCTTCCCGGTAGCTATAGTAATGCTGCGGGCCATTAGAGATTTCTTCTGGAAAAGTGGAAACAAG
ATAGGGTTTAAACCAGCAGGAGGCATCCGAGTGCAAAGGATTCCTTGCTTGGCTCTCTTGTAAAG
GAGGAGCTTGAGATGAGTGGCTGAAGCCAGAACTCTTTCGAATAGGTGCCAGTACTCTGCTCTCGGAC
ATTGAGAGGCAGATTTACCATCATGTGACTGGAAGATATGCAGCTTATCATGATCTTCCAATGTCT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237096
 Blue=ORF Red=Cloning site Green=Tag(s)

MSAHRNGTELDLSWISKIQVNHPAVLRRAEQIQARRTVKKEWQAAWLLKAVTFIDLTTLSGDDTSSNIQ
 RLCYKAKYPIREDLLKALNMHDKGITTAAVCVYPARVCDAVKALKAAGCNIPVASVAAGFPAGQTHLKT
 RLEEIRLAVEDGATEIDVVINRSLVLTGQWEGSDFIKTSTGKETVNATFPVAIVMLRAIRDFFWKTKNK
 IGFKPAGGIRSADSLAWLSLVEELGDEWLKPELFRIGASTLLSDIERQIYHHVTGRYAAYHDLPMST
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001300779

ORF Size: 825 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).

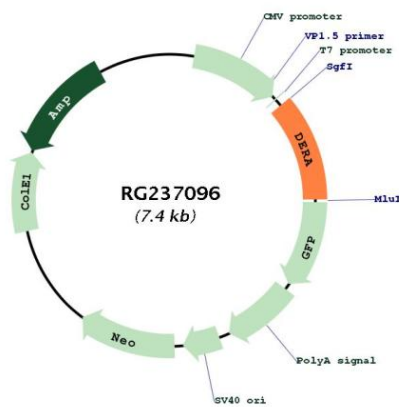
RefSeq: [NM_001300779.2](#)

RefSeq Size: 1692 bp

RefSeq ORF: 828 bp

Locus ID: 51071
Cytogenetics: 12p12.3
Protein Families: Druggable Genome
Protein Pathways: Pentose phosphate pathway
MW: 31 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 RG237096