

Product datasheet for SC119207

GMDS (NM_001500) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GMDS (NM_001500) Human Untagged Clone
Tag:	Tag Free
Symbol:	GMDS
Synonyms:	GMD; SDR3E1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119207 sequence for NM_001500 edited (data generated by NextGen Sequencing)

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ATGGCACACGCACCGGCACGCTGCCCCAGCGCCCGGGGCTCCGGGACGGCGAGATGGGC
AAGCCCAGGAACGTGGCGCTCATCACCGGTATCACAGGCCAGGATGGTTCTACCTGGCT
GAGTTCCTGCTGGAGAAAGGCTATGAGGTCCATGGAATTGTACGCGGTCCAGTTCATTT
AATACGGGTGCAATTGAGCATCTGTATAAGAATCCCCAGGCTCACATTGAAGAAACATG
AAGTTGCACTATGGCGATCTCACTGACAGTACCTGCCTTGTGAAGATCATTAAATGAAGTA
AAGCCCACAGAGATCTACAACCTTGGAGCCCAGAGCCACGTCAAATTTCTTTGACCTC
GCTGAGTACACTGCGGACGTTGACGGAGTTGGCACTCTACGACTTCTAGATGCAGTTAAG
ACTTGTGGCCTTATCAACTCTGTGAAGTTCTACCAAGCCTCAACAAGTGAACCTTATGGG
AAAGTGCAGGAAATACCCAGAAGGAGACCACCCTTTCTATCCCGGTCACCCTATGGG
GCAGCAAAACTCTATGCCTATTGGATTGTGGTGAACCTCCGTGAGGCGTATAATCTCTTT
GCAGTGAACGGCATTCTCTTCAATCATGAGAGTCCCAGAAGAGGAGCTAATTTTCGTTACT
CGAAAAATTAGCCGGTCAGTAGCTAAGATTTACCTTGGACAACCTGGAATGTTTCAGTTTG
GGAAATCTGGATGCCAAACGAGATTGGGGCCATGCCAAGGACTATGTGGAGGCTATGTGG
TTGATGTTGCAGAATGATGAGCCGGAGGACTTCGTTATAGCTACTGGGGAGGTCCATAGT
GTCCGGGAATTTGTGCGAGAAATCATTCTTGCACATTGGAAAAACCATTGTGTGGGAAGGA
AGAATGAAAATGAAGTGGCAGATGTAAGAGACCGGCAAAGTTCACGTGACTGTGGAT
CTCAAGTACTACGGCCAACTGAAGTGGACTTTCTGCAGGGCGACTGCACCAAAGCGAAA
CAGAAGCTGAACTGGAAGCCCCGGTTCGCTTTTCGATGAGCTGGTGAGGGAGATGGTGCAC
GCCGACGTGGAGCTCATGAGGACAAACCCCAATGCCTGA

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Clone variation with respect to NM_001500.2



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001500 unedited</p> <pre>TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCTCGGCCCGCCCC CGGCCCTCCCTGCACGGCCTCCCGTGCGCCCTGTGAGACTGTGGCGGCCGGTCGCGCGG TGCGCTCTCCCTCCCTGCCCGCAGCCTGGAGAGGCGCTTCGTGCTGCACACCCCGCGTT CCTGCCGGCACCAGCCTGCCCTCTGCCGCGCTCCGCCCTGCCCGCAGCCGACGCCCCG CGCGGGACATGGCACACGACCCGGCAGCTGCCACAGCCCGGGGCTCCGGGGACGGCG AGATGGCAAGCCAGGAACGTGGCGCTCATCACCGGTATCACAGGCCAGGATGGTTCTT ACCTGGCTGAGTTCCTGCTGGAGAAAGGCTATGAGGTCCATGGAATTGTACGGCGGTCCA GTTTCATTTAATACGGGTGCAATTGAGCATCTGTATAAGAATCCCCAGGCTCACATTGAAG GAAACATGAAGTTGCACTATGGCGATCTCACTGACAGTACCTGCCTTGTGAAGATCATT ATGAAGTAAAGCCACAGAGATCTACAACCTTGGAGCCAGAGCCAGTCAAAATTTCTT TTGACCTCGTGAGTACTGCGGACGTTGACGGAGTTGGCACTTACGACTTCTAGATG CAGTTAAGACTTGTGGCCTTATCAACTCTGTGAAGTTCTACCAAGCTCCACAAGTGAAC TTTATGGGAAAGTGGGGAATACCCCATAGGAGACCCCTTTCTATTCCGGTCAACC TATGGGGCAGCAAACCTTTATGCCCTATTGGATTGTGGTGAACCTCCGGGAGGCGGATA ATTCNCTTTGAGGGAAACGGCATTCTCTAATCATGAGAGCCCAACAAGAGAATAA TTTCCGTTACCTCAAAAATTAACCCGGGCGNAGCTAAGAATTCACCCTGGACACACTGG AAGGGTTCAG</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001500 unedited</p> <pre>CTTGGACGCGGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTGTAGTTCACAGA AAGACATTTTTAATATGAAAAGAGAAAACAATTTGAAGGCCCAATTTGTTGTGTAA CAACATAATTTCAAGTAAAGTGAATGTGATTAACATCTTGATTCACAAAGCCATTCA GAGGAGGCTTCGACAAACGCAAAGCGACCCAAACCCTGGAGGGTACATCCCGGCTGCTA CAAACCTCGGCGGGGCGGCCCGCTCTTGGCGCCGGGACAGCGCAGCGGAGCAGGGGCC GCAGGGGACCCGAGATTGGCACGCCGCTCCCCATCCCCGACGCGCTGCACCGGAGA CTCTGCGGGGATTGTAGCCGGAGGGCGGCCCGGCTCCGAGGCGCTGCTCAGGCATTGGG GTTTGTCTCATGAGCTCCACGTGCGGCTGCACCATCTCCCTCACCAGCTCATCGAAAGC GACCCGGGGCTTCCAGTTCAGCTTCTGTTTCGCTTTGGTGCAGTCGCCCTGCAGAAAGTC CACTTCAGTTGGCCGGTAGTACTTGAGATCCACAGTACGTGAACCTTTGCCGGTCTCTTT ACATCTGCCCACTTCATTTTCACTTCTTTCTTCCACACAATGGTTTTTCCAATGTGCAA GAATGATTTCTCGACAAATTCGCGACACTATGGACCTNNCCAGTAGCTATAACGAAGTC CTCCGGCTCATATTCTGCAACATCAACCACATAGCCTCCACATAGTCCTTGGCATGGCC CCAATCTCGTTTGGCATCCAGATTTCCAAACTGAAACATCCAGTTGTCCAAGGTAATCT AACTACTGACCGGCTAATTTTCGAGTACGAAATTAGCTCCTTCTGGGACTCTATGATT GAAGAAATGCCGTTACTGCAAGAGATATACCCTCACGGAATCACCACCATCCATGGCATA AAGTTTGTGCCCATAG</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_001500
Insert Size:	1860 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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_001500.2 , NP_001491.1
RefSeq Size:	1698 bp
RefSeq ORF:	1119 bp
Locus ID:	2762
UniProt ID:	O60547
Cytogenetics:	6p25.3
Protein Families:	Druggable Genome
Protein Pathways:	Amino sugar and nucleotide sugar metabolism, Fructose and mannose metabolism, Metabolic pathways
Gene Summary:	<p>GDP-mannose 4,6-dehydratase (GMD; EC 4.2.1.47) catalyzes the conversion of GDP-mannose to GDP-4-keto-6-deoxymannose, the first step in the synthesis of GDP-fucose from GDP-mannose, using NADP+ as a cofactor. The second and third steps of the pathway are catalyzed by a single enzyme, GDP-keto-6-deoxymannose 3,5-epimerase, 4-reductase, designated FX in humans (MIM 137020).[supplied by OMIM, Aug 2009]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>