

Product datasheet for **SC324372**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:	<p>>OriGene sequence for NM_001500.2</p> <pre>GCACGGCCTCCCGTGCGCCCTGTGACTGTGGCGCCGGTTCGCGCGGTGCGCTCTCCC TCCCTGCCCGCAGCCTGGAGAGGCGCTTCGTGCTGCACACCCCGCGTTCCTGCCGGCAC CGCGCCTGCCCTTGCCGCGCTCCGCCCTGCCGCCGACCGCACGCCCGCCGCGGGACATG GCACACGCACCGGCACGCTGCCCCAGCGCCCGGGGCTCCGGGGACGGCGAGATGGGCAAG CCCAGGAACGTGGCGCTCATCACCGGTATCACAGGCCAGGATGGTTCTACCTGGTGAG TTCTGTGGAGAAAGGCTATGAGGTCCATGGAATTGTACGGCGGTCCAGTTCATTTAAT ACGGGTGCAATTGAGCATCTGTATAAGAATCCCCAGGCTCACATTGAAGGAAACATGAAG TTGCACTATGGCGATCTCACTGACAGTACCTGCCTTGTGAAGATCATTAATGAAGTAAAG CCCACAGAGATCTACAACCTTGGAGCCCAGAGCCACGTCAAAAATTTCTTTGACCTCGCT GAGTACACTGCGGACGTTGACGGAGTTGGCACTCTACGACTTCTAGATGCAGTTAAGACT TGTGGCCTTATCAACTCTGTGAAGTTCTACCAAGCCTCAACAAGTGAACTTTATGGGAAA GTGCAGGAAATACCCAGAGGAGACCACCCCTTCTATCCCGGTACCCCTATGGGGCA GCAAAACTCTATGCCTATTGGATTGTGGTGAACCTCCGTGAGGCGTATAATCTCTTTGCA GTGAACGGCATTCTTCAATCATGAGAGTCCCAGAAGAGGAGCTAATTTGTTACTCGA AAAATTAGCCGGTCAGTAGCTAAGATTTACCTTGGACAACCTGGAATGTTTCAGTTTGGGA AATCTGGATGCCAAACGAGATTGGGGCCATGCCAAGGACTATGTGGAGGCTATGTGGTTG ATGTTGCAGAATGACGAGCCGGAGGACTTCGTTATAGCTACTGGGGAGGTCCATAGTGTC CGGGAATTTGTCGAGAAATCATTCTTGCACATTGGAAAAACCATTTGTGTGGGAAGGAAA AATGAAATGAAGTGGGCAGATGTAAGAGACCGGCAAAGTTCACGTGACTGTGGATCTC AAGTACTACCGCCAACCTGAAGTGGACTTTCTGCAGGGCGACTGCACCAAAGCGAAACAG AAGCTGAACTGGAAGCCCGGGTCGCTTTCGATGAGCTGGTGAGGGAGATGGTGCACGCC GACGTGGAGCTCATGAGGACAAACCCCAATGCCCTGAGCAGCGCCTCGGAGCCCGCCCGC CTCCGGCTACAATCCCGCAGAGTCTCCGGTGCAGACGCGCTGCGGGGATGGGGAGCGG CGTGCCAATCTGCGGGTCCCCTGCGGCCCTGCTGCCGCTGCGCTGTCCCGGCCGCAAGA GCGGGGCCCGCCCGGAGGTTTGTAGCAGCCGGGATGTACCCTCCAGGGTTTGGGTGCG CTTTGCGTTTGTGCAAGCCTCCTCTGAATGGCTTTGTGAAATCAAGATGTTTTAATCACA TTCACTTTACTTGAAATATGTTGTTACACAACAATTGTGGGCCTTCAAATTGTTTTT CTCTTTTCATATTAATAATGGTCTTTCTGTGAACTAGCAAAAAAAAAAAAAAAAAAAAA</pre>
Restriction Sites:	Please inquire
ACCN:	NM_001500
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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>