

Product datasheet for **SC117401**

GSDME (NM_004403) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GSDME (NM_004403) Human Untagged Clone
Tag:	Tag Free
Symbol:	GSDME
Synonyms:	DFNA5; ICERE-1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC117401 sequence for NM_004403 edited (data generated by NextGen Sequencing)

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ATGTTTGCCTAAAGCAACCAGGAATTTTCTTAGAGAAGTTGATGCTGATGGTGACCTGATT
GCAGTATCAAATCTGAATGACTCTGATAAGTTACAGCTTCTAAGTCTGGTGACAAAAAAG
AAGAGATTCTGGTGTGGCAGAGACCCAAGTACCAGTTTTATCCCTCACCTTGGCGAT
GTACTCATAGAAGACCAATTTCCGAGTCCAGTGGTCGTGGAGTCCGACTTTGTGAATAC
GAGGGCAAGTTTGCAAACCACGTGAGTGGAAACCTGGAGACTGCACTGGGGAAGGTCAAG
CTGAACCTGGGGGCGAGCAGCCGCTAGAGAGCCAGTCTTCATTTGGAACCTGAGGAAG
CAGGAGGTGGATTTGCAGCAGCTCATCAGAGACTCTGCCGAGAGAACAATAAATCTGAGA
AACCTGTGCTCCAGCAGGTGCTGGAAGGAAGGAATGAGGTCTGTGCGTTTTGACACAG
AAGATCACGACGATGCAGAAGTGTGTGATCTCTGAGCACATGCAGGTGCGAGGAGAAGTGT
GGTGGCATCGTGGGCATCCAGACCAAGACGGTGCAGGTGTGAGCAGCGGAGGATGGGAAT
GTCACCAAGGACTCCAACGTGGTGTGAGATCCCAGCTGCCACCACCATTGCCTACGGT
GTCATTGAGTTATACGTGAAACTGGACGGCCAGTTCGAGTCTGCCTTCTCCGAGGGAAG
CAAGGTGGCTTCGAGAACAAGAAGAGAATTGACTCTGTCTACCTGGACCCCTGGTCTTT
CGAGAGTTTGCATTTCATAGACATGCCAGATGCTGCGCATGGGATATCTTCCCAGGATGGA
CCATTAAGTGTTTAAAGCAAGCGACCCTGCTCCTGGAGAGGAATTTCCATCCATTTGCG
GAGCTGCCTGAGCCACAACAGACAGCTTTGAGTGACATCTTCCAGGCGGTCTATTTGAT
GATGAACTACTCATGGTCTGGAACCAAGTGTGCGATGACCTGGTCCAGCGGCTCTCGCC
ACAGTGGCGGTGCTGGGGAGCTGAAGCCCCGGCAGCAGCAGGACCTTGTGGCCTTCTG
CAGCTGGTGGGTGCAGCTTACAGGGTGGTGTCCGGCCCCGAGGATGCAGGCAGCAAG
CAGCTGTTTATGACAGCTACTTCTTGGTCACTGCCCTCGCAGAAATGCCAGATAGCGCA
GCAGCTCTGCTGGGCATTTGCTGCAAACCTCCAGATCATTCCCACACTGTGCCACTTGTCT
CGTGCTCTGTCTGATGATGGAGTATCTGATCTTGAAGACCAACCTTGACTCCCCCTGAAA
GATACAGAAAGTTTGGGATTGTGCAGCGCTTGTTCCTCAGCTGACATTAGTCTGGAG
AGACTGAAGTCATCTGTGAAAGCTGTCATTCTGAAGGACTCTAAAGTCTTCCCAGTCTT
CTTTGTATAACCCTGAATGGACTCTGTGCTTTAGGCAGAGAACATTCATGA
    
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Clone variation with respect to NM_004403.2

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_004403 unedited
GGGCAATTTTGTATACGACTCCTATAGGCGGCNCGGATTCGGCACGAGGCTGGAGCTT
TCAAAAAGTTTGCCTAAAGCAACCAGGAATTTTCTTAGAGAAGTTGATGCTGATGGTGACCT
GATTGCAGTATCAAATCTGAATGACTCTGATAAGTTACAGCTTCTAAGTCTGGTGACAAA
AAAGAAGAGATTCTGGTGTGGCAGAGACCCAAGTACCAGTTTTATCCCTCACCTTGG
CGATGTACTCATAGAAGACCAATTTCCGAGTCCAGTGGTCGTGGAGTCCGACTTTGTGAA
ATACGAGGGCAAGTTTGCCAAACCACGTGAGTGGAAACCTGGAGACTGCACTGGGGAAGGT
CAAGCTGAACCTGGGGGCGAGCAGCCGCTAGAGAGCCAGTCTTCATTTGGAACCTGAG
GAAGCAGGAGGTGGATTTGCAGCAGCTCATCAGAGACTCTGCCGAGAGAACAATAAATCT
GAGAAACCTGTGCTCCAGCAGGTGCTGGAAGGAAGGAATGAGGTCTGTGCGTTTTGAC
ACAGAAGATCACGACGATGCAGAAGTGTGTGATCTCTGAGCACATGCAGGTGCGAGGAGAA
GTGTGGTGGCATCGTGGGCATCCAGACCAAGACGGTGCAGGTGTGAGCAGCGGAGGATGG
GAATGTCACCAAGGACTCCAACGTGGTGTGAGATCCCAGCTGCCACCACCATTGCCTA
CGGTGTCATTGAGTTATACGTGAAACTGGACGGCCAGTTCGAGTCTGCCTTCTCTCGAG
GAAGCAAGGTGGCTTCCAGAACCAAGAGAGAATTGACTCTGTCTACCTGGACCCCTGGTC
TTTCCAGAGTTTGCATTANACTGCCAGATGCTGCGCATGGGAATCTTCCCAGAAGAG
ACATTAATGTTT
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_004403 unedited CCGCGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTAGTTCAAAGTTTCCTTTA ATAGAATACCCAGAATACATAGNGAAATCAACATGGTGCTAGACATAGAATTAGTATGTT CACTGAAGCATGGCAAGGTCACATAAAATGCATATAGCTAGGGTCCCAAGCAGGGGTGTG TACTGTTAGATTTTTTTGAAGTTTAATTTTGTTCAGCAGAGGAATATACTCTAGGAGCA TTTACAGTTCATTTTCAGTCATCAAATAACATACATCACTTCCAAAACGTAGCCTCTTGT GTGCAGAGAAAATTGCCTTCCCACAGCATTACAATGTAAAAAGACCTTTTGGATTAAGG GTCAGACTCTTTCTATGTAACAAAAAGTGAATGCAAGTGACAGATGGACTTATTATTGT GCAGAAAAACGTCTGAATGTATGCTAAGAATTCTCCGCCCTCCAGCTCTTTACATGCT GGAACCTAACTCAGATGCTGGGTCACCAGCACAGGAGGGCCTCTGATAAGGAAAACCTGTT TAAAGAGTACCTGGTGGCTAAAAGTCAGGTCATTCATCATGCAAATGTCACCCTTCTT AAACTGTTCTGTAATTCATTTTCATTGGTCACTTTTAACTGTCATATGACCTTTTACAG TTCTGAAAAATAGCCTTGGCCAGTAACACGTACTTCTAGTTCACATATGACATCATGAAT GTTCTCTGCCTAAGCACAGATTCATTCAGGGTTATACAAAGAAGCAGGGGGGAGAACTT AGAGGTCTTGAATGACAGCTTTACGATGACTTTAGTCTCTTCAGACTAATGTCAACTG AGGCAAAACAAGCCTGCACCATCCCAAACCTTTCTGGATTTTTCCGGGGAGTCAGGGTTT GGGTCTTCAAGATCAGATACTCCTTTCTCAGACGGACCCGAAACAGTGGGCCAATNTGGG AATGATC
Restriction Sites:	NotI-NotI
ACCN:	NM_004403
Insert Size:	2260 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:	<u>NM_004403.1</u> , <u>NP_004394.1</u>
RefSeq Size:	2230 bp
RefSeq ORF:	1491 bp
Locus ID:	1687
UniProt ID:	<u>O60443</u>
Cytogenetics:	7p15.3
Domains:	DFNA5

Protein Families: Druggable Genome

Gene Summary: Hearing impairment is a heterogeneous condition with over 40 loci described. The protein encoded by this gene is expressed in fetal cochlea, however, its function is not known. Nonsyndromic hearing impairment is associated with a mutation in this gene. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a). Variants 1 and 2 both encode isoform a.