

## Product datasheet for **RG225486**

### GSDME (NM\_001127454) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GSDME (NM_001127454) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GSDME
Synonyms:	DFNA5; ICERE-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG225486 representing NM\_001127454  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTTTGCCAAAGCAACCAGGAATTTTCTAGAGAAGTTGATGCTGATGGTGACCTGATTGCAGTATCAA  
 ATCTGAATGACTCTGATAAGTTACAGCTTCTAAGTCTGGTGACAAAAAGAAGAGATTCTGGTGCTGGCA  
 GAGACCCAAGTACCAGTTTTTATCCCTCACCTTGGCGATGTAATCATAGAAGACCAATTTCCGAGTCCA  
 GTGGTCGTGGAGTCGGACTTTGTGAAATACGAGGGCAAGTTTGCAAACCACGTGAGTGGAAACCTGGAGA  
 CTGCACTGGGGAAGGTCAAGCTGAACCTGGGGGCGAGCCGCTAGAGAGCCAGTCTTCAATTTGGAAC  
 CCTGAGGAAGCAGGAGGTGGATTTGCAGCAGCTCATCAGAGACTCGCCGAGAGAACAATAAATCTGAGA  
 AACCTGTGCTCCAGCAGGTGCTGGAGGGAAGGAATGAGGTCCTGTGCGTTTTGACACAGAAGATCAGCA  
 CGATGCAGAAGTGTGATCTCTGAGCACATGCAGGTCGAGGAGAAGTGGTGGCATCGTGGGCATCCA  
 GACCAAGACGGTGCAGGTGTCAGCGACGGAGGATGGGAATGTACCAAGGACTCCAACGTGGTGTGGAG  
 ATCCCAGCTGCCACCACATTGCCTACGGTGTCAATGAGTTATACGTGAAACTGGACGGCCTGTTGAGT  
 TCTGCCTTCTCCGAGGGAAGCAAGGTGGCTTCGAGAACAAGAAGAGAATTGACTCTGTCTACCTGGACCA  
 CCTGGTCTTTCGAGAGTTTGCATTCATAGACATGCCAGATGCTGCGCATGGGATATCTTCCAGGATGGA  
 CCATTAAGTGTTTAAAGCAAGCGACCCTGCTCCTGGAGAGGAATTTCCATCCATTTGCGGAGCTGCCTG  
 AGCCACAACAGACAGCTTTGAGTGACATCTTCCAGGCGGTCGATTTTGTGATGAACTACTCATGGTCTCT  
 GGAACCAAGTGTGCGATGACCTGGTCAGCGGCTCTCGCCACAGTGGCGGTGCTGGGGGAGCTGAAGCCC  
 CGGCAGCAGCAGGACCTGTGGCCTTCTGCAGCTGGTGGGTGCAGCTTACAGGGTGGGTGCCGAAATGCC  
 CCGAGGATGCAGGCAGCAAGCAGCTGTTTATGACAGCCTACTTCTTGGTCACTGCCCTGCAGAAATGCC  
 AGATAGCGCAGCAGCTCTGCTGGGCACTTGTGCAAACTCCAGATCATTCCACACTGTGCCACTGTCTT  
 CGTGCTCTGTCTGATGATGGAGTATCTGATCTTGAAGACCAACCTTACTCCCTGAAAGATACAGAAA  
 GGTTTGGGATTGTGCAGCGCTTGTGCTCAGCTGACATTAGTCTGGAGAGACTGAAGTCATCTGTGAA  
 AGCTGTCAATCTGAAGGACTCTAAAGTCTTCCACTGCTCTTTGTATAACCCTGAATGGACTCTGTGCT  
 TTAGGCAGAGAACATTCA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG225486 representing NM\_001127454  
 Red=Cloning site Green=Tags(s)

MFAKATRNFLREVDADGDLIAVSNLNDSDKLQLLSLVTKKKRWCWQRPKYQFLSLTLGDVLIEDQFPSP  
 VVVESDFVKYEGKFANHVSGTLETALGKVKLNLLGGSSRVEQSFFGTLRKQEVLDLQQLIRDSAERTINLR  
 NPVLQQVLEGRNEVLCVLTQKITTMQKCVISEHMQVEEKCGGIVGIQTKTVQVSATEDGNVTKDSNVVLE  
 IPAATTIAYGVIELYVKLDGLFEFCLLRGKQGGFENKKRIDSIVLDHLVFREFAFIDMPDAAHGISSQDG  
 PLSVLKQATLLLEARNFHPFAELPEPQQTALSDIFQAVVDFDELLMVLEPVCDDLVSGLSPTVAVLGELKP  
 RQQQDLVAFLLVGCSSLQGGCPGPEPAGSKQLFMTAYFLVSALAEMPDSAAALLGTCCCKLQIIPTLCHLL  
 RALSDDGVSLEDPVLTPLKDTFRFQVQLFASADISLERLKS SVKAVILKDSKVFPLLLCITLNLGLCA  
 LGREHS

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



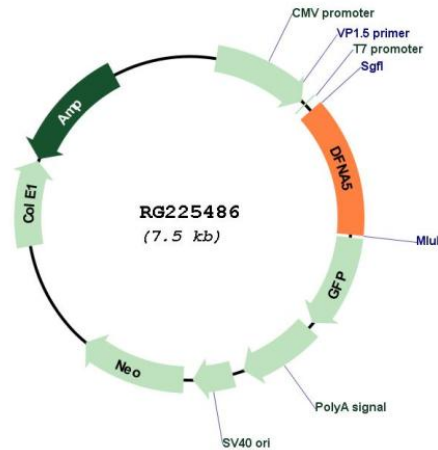
```

                                     Kozac
                                     Consensus
                                     SgfI   AscI
          EcoRI   BamHI KpnI   RBS
CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT

          HindIII   NheI   RsrII   MluI   NotI   XhoI   GFP Tag
CAAGCTTAACTAGCTAGCGGACCG   ACG CGT   ACG CGG   CCG CTC GAG   ATG GAG AGC GAC --- ---
                                     T   R   T   R   P   L   E   M   E   S   D   -   -   -

          PmeI   FseI
--- --- GAA GAA AGA GTT TAA ACGGCCGGCCGCGGAGCT
- - - E E R V Stop
    
```

Plasmid Map:



**ACCN:** NM\_001127454

**ORF Size:** 1491 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001127454.1</a> , <a href="#">NP_001120926.1</a>
<b>RefSeq Size:</b>	2291 bp
<b>RefSeq ORF:</b>	999 bp
<b>Locus ID:</b>	1687
<b>UniProt ID:</b>	<a href="#">O60443</a>
<b>Cytogenetics:</b>	7p15.3
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	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]