

## Product datasheet for **RG210515**

### **GSDME (NM\_004403) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GSDME (NM_004403) 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:**

>RG210515 representing NM\_004403  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTTTGCCAAAGCAACCAGGAATTTTCTAGAGAAGTTGATGCTGATGGTGACCTGATTGCAGTATCAA  
 ATCTGAATGACTCTGATAAGTTACAGCTTCTAAGTCTGGTGACAAAAAAGAAGAGATTCTGGTGCTGGCA  
 GAGACCCAAGTACCAGTTTTTATCCCTCACCTTGGCGATGTAATCATAGAAGACCAATTTCCGAGTCCA  
 GTGGTCGTGGAGTCGGACTTTGTGAAATACGAGGGCAAGTTTGCAAACCACGTGAGTGGAACCTGGAGA  
 CTGCACTGGGGAAGGTCAAGCTGAACCTGGGGGCGAGCCGCTAGAGAGCCAGTCTTCAATTTGGAAC  
 CCTGAGGAAGCAGGAGGTGGATTTGCAGCAGCTCATCAGAGACTCGCCGAGAGAACAATAAATCTGAGA  
 AACCTGTGCTCCAGCAGGTGCTGGAGGGAAGGAATGAGGTCTGTGCGTTTTGACACAGAAGATCAGGA  
 CGATGCAGAAGTGTGATCTCTGAGCACATGCAGGTCGAGGAGAAGTGGTGGCATCGTGGGCATCCA  
 GACCAAGACGGTGCAGGTGTCAGCGACGGAGGATGGGAATGTACCAAGGACTCCAACGTGGTGTGGAG  
 ATCCCAGCTGCCACCACATTGCCTACGGTGTCAATTGAGTTATACGTGAAACTGGACGGCCTGTTGAGT  
 TCTGCCTTCTCCGAGGGAAGCAAGGTGGCTTCGAGAACAAGAAGAGAATTGACTCTGTCTACCTGGACCA  
 CCTGGTCTTTCGAGAGTTTGCATTATAGACATGCCAGATGCTGCGCATGGGATATCTTCCAGGATGGA  
 CCATTAAGTGTTTAAAGCAAGCGACCCTGCTCCTGGAGAGGAATTTCCATCCATTTGCGGAGCTGCCTG  
 AGCCACAACAGACAGCTTTGAGTGACATCTTCCAGGCGGTCGATTTTGATGATGAACTACTCATGGTCTT  
 GGAACCAAGTGTGCGATGACCTGGTCAGCGGCTCTCGCCACAGTGGCGGTGCTGGGGGAGCTGAAGCCC  
 CGGCAGCAGCAGGACCTGTGGCCTTCTGCAGCTGGTGGGTGCAGCTTACAGGGTGGGTGCTCCGGGCC  
 CCGAGGATGCAGGCAGCAAGCAGCTGTTATGACAGCCTACTTCTTGGTCACTGCCCTCGCAGAAATGCT  
 AGATAGCGCAGCAGCTCTGCTGGGCACTTGTGCAAACTCCAGATCATTCCACACTGTGCCACTGTGCTT  
 CGTGCTCTGTCTGATGATGGAGTATCTGATCTTGAAGACCAACCTTACTCCCTGAAAGATACAGAAA  
 GGTTTGGGATTGTGCAGCGCTTGTGCTCAGCTGACATTAGTCTGGAGAGACTGAAGTCATCTGTGAA  
 AGCTGTCACTTGAAGGACTCTAAAGTCTTCCACTGCTTCTTTGTATAACCCTGAATGGACTCTGTGCT  
 TTAGGCAGAGAACATTCA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG210515 representing NM\_004403  
 Red=Cloning site Green=Tags(s)

MFAKATRNFLREVDADGDLIAVSNLNDSDKLQLLSLVTKKKRWCWQRPKYQFLSLTLGDVLIEDQFPSP  
 VVVESDFVKYEGKFAHVSGTLETALGKVKLNLLGGSSRVESQSSFGTLRKQEVLDLQQLIRDSAERTINLR  
 NPVLQQVLEGRNEVLCVLTQKITTMQKCVISEHMQVEEKCGGIVGIQTKTVQVSATEDGNVTKDSNVVLE  
 IPAATTIAYGVIELYVKLDGLFEFCLLRGKQGGFENKKRIDSIVLDHLVREFAFIDMPDAAHGISSQDG  
 PLSVLKQATLLLEARNFHPFAELPEPQTALSDIFQAVVDFDELLMVLEPVCDDLVSGLSPTVAVLGELKP  
 RQQQDLVAFLLQVGCSSLQGGCPGPEAGSKQLFMTAYFLVSALAEMPDSAAALLGTCCCKLQIIPTLCHLL  
 RALSDDGVSLEDPVLTPLKDTFRFQVQLFASADISLERLKS SVKAVILKDSKVFPLLLCITLNLGLCA  
 LGREHS

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_004403

**ORF Size:** 1488 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).

**Reconstitution Method:**

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\\_004403.2](#), [NP\\_004394.1](#)

**RefSeq Size:** 2521 bp

**RefSeq ORF:** 1491 bp

**Locus ID:** 1687

**UniProt ID:** [O60443](#)

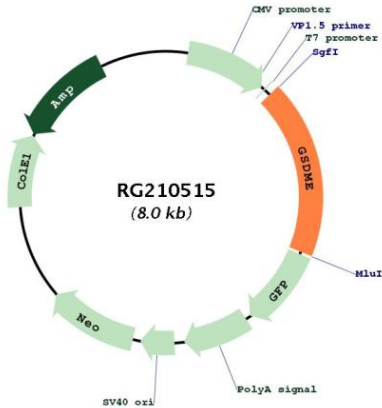
**Cytogenetics:** 7p15.3

**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]

**Product images:**



Circular map for RG210515