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Product datasheet for RC210515

GSDME (NM_004403) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GSDME (NM_004403) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GSDME
Synonyms:	DFNA5; ICERE-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC210515 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTTGCCAAAGCAACCAGGAATTTTCTTAGAGAAGTTGATGCTGATGGTGACCTGATTGCAGTATCAA
ATCTGAATGACTCTGATAAGTTACAGCTTCTAAGTCTGGTGACAAAAAAGAAGAGATTCTGGTGCTGGCA
GAGACCCAAGTACCAGTTTTTATCCCTCACCCTTGGCGATGTACTCATAGAAGACCAATTTCCGAGTCCA
GTGGTCGTGGAGTCGGACTTTGTGAAATACGAGGGCAAGTTTGCAAACCACGTGAGTGGAACCCTGGAGA
CTGCACTGGGGAAGGTCAAGCTGAACCTGGGGGGCAGCAGCCGCGTAGAGAGCCAGTCTTCATTTGGAAC
CCTGAGGAAGCAGGAGGTGGATTTGCAGCAGCTCATCAGAGACTCTGCCGAGAGAACAATAAATCTGAGA
AACCCTGTGCTCCAGCAGGTGCTGGAGGGAAGGAATGAGGTCCTGTGCGTTTTGACACAGAAGATCACGA
CGATGCAGAAGTGTGTGATCTCTGAGCACATGCAGGTCGAGGAGAAGTGTGGTGGCATCGTGGGCATCCA
GACCAAGACGGTGCAGGTGTCAGCGACGGAGGATGGGAATGTCACCAAGGACTCCAACGTGGTGCTGGAG
ATCCCAGCTGCCACCACCATTGCCTACGGTGTCATTGAGTTATACGTGAAACTGGACGGCCTGTTCGAGT
TCTGCCTTCTCCGAGGGAAGCAAGGTGGCTTCGAGAACAAGAAGAGAATTGACTCTGTCTACCTGGACCA
CCTGGTCTTTCGAGAGTTTGCATTCATAGACATGCCAGATGCTGCGCATGGGATATCTTCCCAGGATGGA
CCATTAAGTGTTTTAAAGCAAGCGACCCTGCTCCTGGAGAGGAATTTCCATCCATTTGCGGAGCTGCCTG
AGCCACAACAGACAGCTTTGAGTGACATCTTCCAGGCGGTCGTATTTGATGATGAACTACTCATGGTCCT
GGAACCAGTGTGCGATGACCTGGTCAGCGGCCTCTCGCCCACAGTGGCGGTGCTGGGGGAGCTGAAGCCC
CGGCAGCAGCAGGACCTTGTGGCCTTCCTGCAGCTGGTGGGGTGCAGCTTACAGGGTGGGTGTCCGGGCC
CCGAGGATGCAGGCAGCAAGCAGCTGTTTATGACAGCCTACTTCTTGGTCAGTGCCCTCGCAGAAATGCC
AGATAGCGCAGCAGCTCTGCTGGGCACTTGCTGCAAACTCCAGATCATTCCCACACTGTGCCACTTGCTT
CGTGCTCTGTCTGATGATGGAGTATCTGATCTTGAAGACCCAACCTTGACTCCCCTGAAAGATACAGAAA
GGTTTGGGATTGTGCAGCGCTTGTTTGCCTCAGCTGACATTAGTCTGGAGAGACTGAAGTCATCTGTGAA
AGCTGTCATTCTGAAGGACTCTAAAGTCTTCCCACTGCTTCTTTGTATAACCCTGAATGGACTCTGTGCT
TTAGGCAGAGAACATTCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC210515 protein sequence
Red=Cloning site Green=Tags(s)

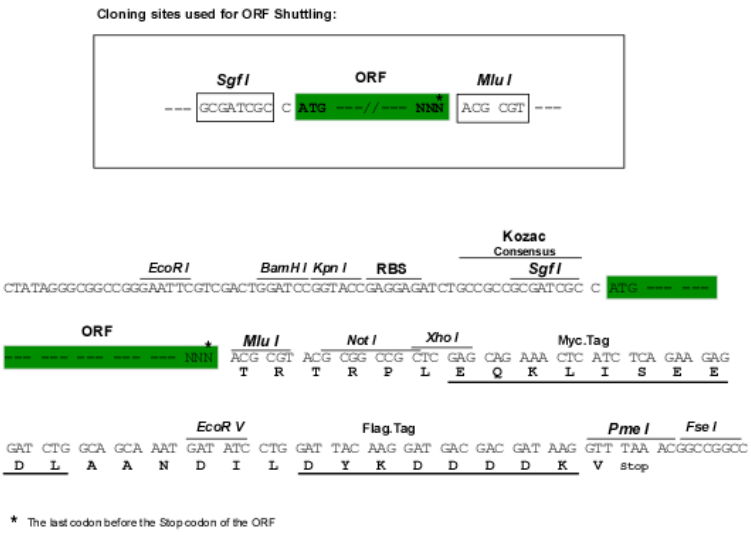
MFAKATRNFLREVDADGDLIAVSNLNDSDKLQLLSLVTKKKRFWCWQRPKYQFLSLTLGDVLIEDQFPSP
VVVESDFVKYEGKFANHVSGTLETALGKVKLNLGGSSRVESQSSFGTLRKQEVDLQQLIRDSAERTINLR
NPVLQQVLEGRNEVLCVLTQKITTMQKCVISEHMQVEEKCGGIVGIQTKTVQVSATEDGNVTKDSNVVLE
IPAATTIAYGVIELYVKLDGLFEFCLLRGKQGGFENKKRIDSVYLDHLVFREFAFIDMPDAAHGISSQDG
PLSVLKQATLLLERNFHPFAELPEPQQTALSDIFQAVVFDDELLMVLEPVCDDLVSGLSPTVAVLGELKP
RQQQDLVAFLQLVGCSLQGGCPGPEDAGSKQLFMTAYFLVSALAEMPDSAAALLGTCCKLQIIPTLCHLL
RALSDDGVSDLEDPTLTPLKDTERFGIVQRLFASADISLERLKSSVKAVILKDSKVFPLLLCITLNGLCA
LGREHS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6546_c11.zip

Restriction Sites: SgfI-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_004403.3

RefSeq Size: 2521 bp

RefSeq ORF: 1491 bp

Locus ID: 1687

UniProt ID: O60443

Cytogenetics: 7p15.3

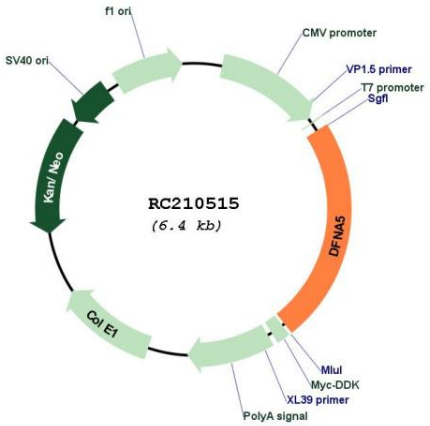
Domains: DFNA5

Protein Families: Druggable Genome

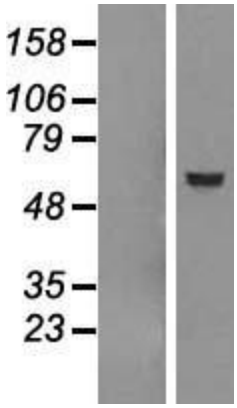
MW: 54.6 kDa

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]

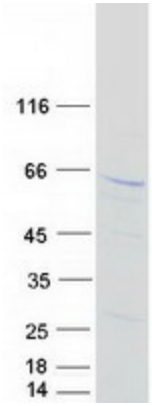
Product images:



Circular map for RC210515



Western blot validation of overexpression lysate (Cat# [LY426790]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC225854] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GSDME protein (Cat# [TP310515]). The protein was produced from HEK293T cells transfected with GSDME cDNA clone (Cat# RC210515) using MegaTran 2.0 (Cat# [TT210002]).