

Product datasheet for **RC225415**

GODZ (ZDHC3) (NM_001135179) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	GODZ
Synonyms:	DHHC-3; DHHC3; GODZ; ZNF373
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC225415 representing NM_001135179
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGATGCTTATCCCCACCCACCACTTCCGAAACATTGAGCGGAAACCAGAATACCTCCAGCCAGAGAAGT
GTGTCCACCCCCCTACCTGGTCCTGTGGGAACCATGTGGTTTATCCGTGACGGCTGTGGCATCGCCTG
TGCCATCGTTACCTGGTTTCTGGTCCTCTATGCGGAGTTCGTGGTCCTCTTTGTCATGCTGATTCATCT
CGAGACTACGTGTATAGCATCATCAACGAATTGTGTTCAACCTGCTGGCCTTCTTGCCCTGGCCTCCC
ACTGCCGGGCATGCTGACGGACCCCGGGCAGTGCCCAAAGGAAATGCCACTAAAGAATTCATCGAGAG
TTTACAGTTGAAGCCTGGGCAGGTGGTGTACAAGTGCCCAAATGCTGCAGCATCAAGCCCGACCGAGCC
CACCCTGCAGTGTTTGAAGCGGTGCATTGGAAGATGGACCACCACTGTCCCTGGGTCAACAACCTGTG
TAGGCGAGAACCAACAGAAGTACTTCGTCTGTTTACAATGTACATAGCTCTCATTTCTTGACGCGCT
CATCATGGTGGGATTCCACTTCTGCAATGCTTTGAAGAAGATTGGACAAAGTGCAGCTCCTTCTCTCCA
CCCACCACAGTGATTCTCCTTATCCTGCTGTGCTTTGAGGGCCTGCTTCTCCTATTTTACATCAGTGA
TGTTTGGGACCCAGGTGCACTCCATCTGCACAGATGAGACGGGAATAGAACAAATTGAAAAAGGAAGAGAG
AAGATGGGCTAAAAAACAATGGATGAACATGAAAGCCGTTTTTGGCCACCCCTTCTCTAGGCTGG
GCCAGCCCCCTTGCACGCCAGACCAAGGAAGGCAGACCCGTACCAAGTATGTGGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RC225415 representing NM_001135179
Red=Cloning site Green=Tags(s)

MMLIPTHHFRNIERKEPEYLQPEKCVPPYPGPVGTMMWIFRDGCGIACAIVTWFLVLYAEFVVLVFMILIPS
 RDYVYSIINGIVFNLLAFLALASHCRAMLTDPGAVPKGNATKEFIESLQLKPGQVVYKCPKCCSIKPDRA
 HHC SVCKRCIRKMDHHC PWNNCGENNQYKFLFTMYIALISLHALIMVGFFHLHCFEEDWTKCCSFSF
 PTTVFATLLKCFEGLFLFIITVSVMFGTQVHSICTDETGEIQLKKEERRWAKKTKWMNMKAVFGHPFSLGW
 ASPVATPDGGLACDPYQVIV

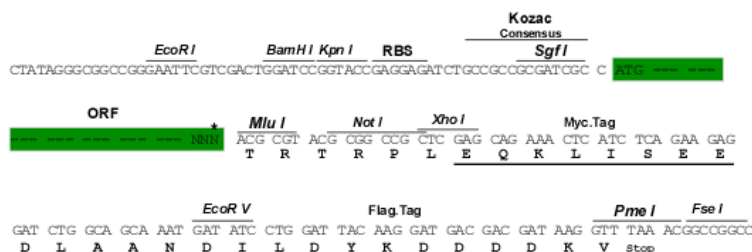
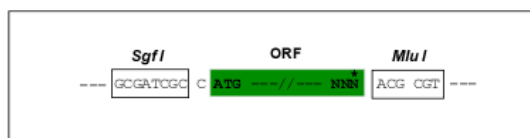
TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1529_c11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001135179

ORF Size: 897 bp

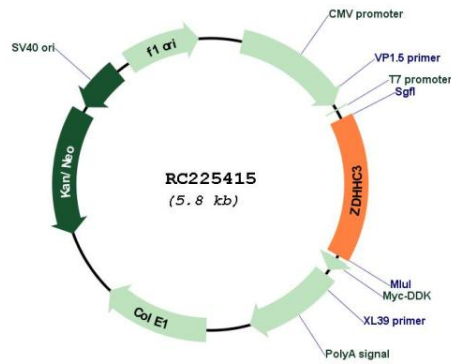
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001135179.2</u>
RefSeq ORF:	900 bp
Locus ID:	51304
UniProt ID:	<u>Q9NYG2</u>
Cytogenetics:	3p21.31
Protein Families:	Druggable Genome, Transmembrane
MW:	34 kDa
Gene Summary:	Palmitoyltransferase with broad specificity (PubMed:21926431, PubMed:23034182). Palmitoylates GABA receptors on their gamma subunit (GABRG1, GABRG2 and GABRG3), which regulates synaptic clustering and/or cell surface stability (By similarity). Palmitoylates glutamate receptors GRIA1 and GRIA2, which leads to their retention in Golgi. May also palmitoylate DLG4, DNAJC5 and SNAP25 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC225415

Western validation with an anti-DDK antibody
* L: Control HEK293 lysate R: Over-expression lysate