

Product datasheet for **RG205327**

DGKZ (NM_003646) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DGKZ (NM_003646) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DGKZ
Synonyms:	DAGK5; DAGK6; DGK-ZETA; hDGKzeta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG205327 representing NM_003646
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCCCGGGACGGTAGCCCGAGGCCGGAGCAGCGACTCCGAGTCGGCTTCGCCTCGTCCAGCG
 GCTCCGAGCGCGACGCCGTCCCGAGCCGACAAGGCGCCGCGGCGACTCAACAAGCGGCCGCTTCCCGGG
 GCTGCGGCTCTTCGGGCACAGGAAAGCCATCACCAAGTCGGGCCTCCAGCACCTGGCCCCCCTCCGCC
 ACCCTGGGGCCCGTGCAGCGAGTCAGAGCGGCAGATCCGGAGTACAGTGGACTGGAGCGAGTCAGCGA
 CATATGGGAGCACATCTGGTTCGAGACCAACGTGTCCGGGACTTCTGCTACGTTGGGAGCAGTACTG
 TGTAGCCAGGATGCTGAAGTCAGTGTCTCGAAGAAAGTGCAGCAGCTGCAAGATTGTGGTGCACACGCC
 TGCATCGAGCAGTGGAGAAGATAAATTCGCTGTAAGCCGCTCTCCGTAATCAGGCTCCAGGAATG
 TCCGCGAGCCAACCTTTGTACGGCACCACTGGGTACACAGACGACGCCAGGACGGCAAGTGTGGCACTG
 TGGGAAGGGATTCCAGCAGAAGTTCACCTTCCACAGCAAGGAGATTGTGGCCATCAGCTGCTCGTGGTGC
 AAGCAGGCATACCACAGCAAGGTGCTCTGCTTCAATGCTGCAGCAGATCGAGGAGCCGTGCTCGTGGGG
 TCCACGCAGCCGTGGTCAATCCCGCCACCTGGATCCTCCGCGCCCGGAGGCCCCAGAATACTCTGAAGC
 AAGCAAGAAGAAGAAGAGGGCATCCTTCAAGAGGAAGTCCAGCAAGAAAGGGCCTGAGGAGGGCCGCTGG
 AGACCTTTCATCATCAGGCCACCCCTCCCGCTCATGAAGCCCTGCTGGTGTGGTGAACCCCAAGA
 GTGGGGCAACCAGGGTGCAAAGATCATCCAGTCTTCTCTGGTATCTCAATCCCGACAAGTCTTCGA
 CCTGAGCCAGGGAGGGCCCAAGGAGGCGCTGGAGATGTACCGCAAAGTGCACAACCTGCGGATCCTGGCG
 TGCGGGGGCAGCGCACGGTGGGCTGGATCCTCTCCACCCTGGACCAGCTACGCTGAAGCCGCCACCC
 CTGTTGCCATCCTGCCCTGGGTACTGGCAACGACTTGGCCGAACCTCAACTGGGGTGGGGGTACAC
 AGATGAGCCTGTGTCCAAGATCCTCTCCACGTCGGAGGAGGGGAACGTGGTACAGCTGGACCGCTGGGAC
 CTCCACGCTGAGCCCAACCCGAGGCAGGGCTGAGGACCAGATGAAGCGCCACCGACCAGGTTGCCCC
 TGGATGTCTTCAACAATACTTACGCTGGGCTTTGACGCCACGTCACCCTGGAGTTCACGAGTCTCG
 AGAGGCCAACCCAGAGAAATTCACAGCCGCTTTCGGAATAAGATGTTCTACGCCGGACAGCTTCTCT
 GACTTCTGATGGGCAGTCCAAGGACCTGGCCAAGCACATCCGAGTGGTGTGTGATGGAATGGACTTGA
 CTCCAAGATCCAGGACCTGAAACCCAGTGTGTTGTTTTCTGAACATCCCGAGTACTGTGCGGGCAC
 CATGCCCTGGGGCACCCCTGGGAGCACCAGACTTTGAGCCCCAGCGCATGACGACGGCTACCTCGAG
 GTCATTGGCTTACCATGACGTCGTTGGCCGCGTGCAGGTGGGCGGACACGGCAGCGGCTGACGCACT
 GTCGCGAGGTGGTGTCAACACATCCAAGGCCATCCCGGTGCAGGTGGATGGCGAGCCCTGCAAGCTTGC
 AGCCTCACGCATCCGCATCGCCCTGCGCAACCAGGCCACCATGGTGCAGAAGGCCAAGCGCGGAGCGCC
 GCCCCCTGCACAGCGACCAGCAGCCGGTGCCAGAGCAGTTGCGCATCCAGGTGAGTTCGCTCAGCATGC
 ACGACTATGAGGCCCTGCACTACGACAAGGAGCAGCTCAAGGAGGCCCTGTGCGGCTGGGCACTGTGGT
 GGTCCCAGGAGACAGTACCTAGAGCTCTGCCGTGCCACATTGAGAGACTCCAGCAGGAGCCCGATGGT
 GCTGGAGCCAAGTCCCGACATGCCAGAACTGTCCCAAGTGGTGTCTCCTGGACGCCACCACTGCCA
 GCCGTTCTACAGGATCGACCGAGCCAGGAGCACCTCAACTATGTGACTGAGATCGCACAGGATGAGAT
 TTATATCCTGGACCCTGAGCTGCTGGGGCATCGGCCGGCTGACCTCCCAACCCCACTTCCCCTCTC
 CCCACCTACCCTGCTCACCCACGCCCGGTCACTGCAAGGGGATGCTGCACCCCTCAAGGTGAAGAGC
 TGATTGAGGCTGCCAAGAGGAACGACTTCTGTAAGCTCCAGGAGTGCACCGAGCTGGGGCGACCTCAT
 GCACCGAGACGAGCAGAGTCGCACGCTCTGCACCACGAGTCAGCACTGGCAGCAAGGATGTGGTCCGC
 TACCTGCTGGACCAGCCCCCAGAGATCCTTGATGCGGTGGAGGAAAACGGGGAGACCTGTTGCACC
 AAGCAGCGCCCTGGGCCAGCGCACCATCTGCCACTACATCGTGGAGGCCGGGCTCGCTCATGAAGAC
 AGACCAGAGGGGACACTCCCGGCAGCGGGCTGAGAAGGCTCAGGACACCGAGCTGGCCGCTACCTG
 GAGAACCAGCAGCACTACCAGATGATCCAGCGGGAGGACCAGGAGACGGCTGTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG205327 representing NM_003646
Red=Cloning site Green=Tags(s)

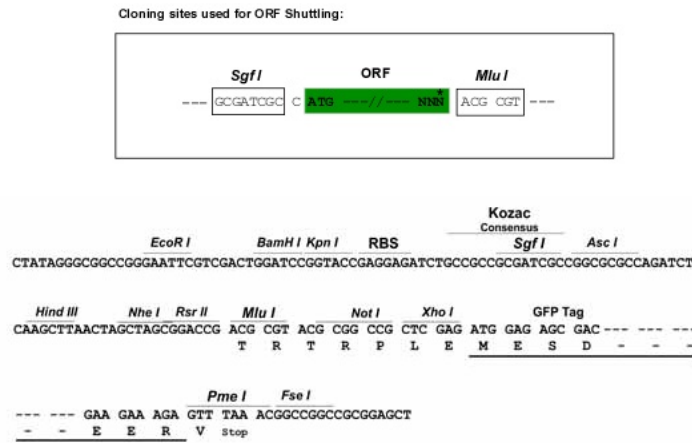
```
MEPRDGSPEARSSDSESASASSSGSERDAGPEPDKAPRRLNKRFPGLRLFGRKAITKSLQLHAPPPP
TPGAPCSESERQIRSTVDWSESATYGEHIWFETNVSGDFCYVGEQYCVARMLKSVSRKCAACKIVVHTP
CIEQLEKINFRCKPSFRESGSRNVREPTFVRHHWVHRRRQDGKCRHCGKGFQQKF TFHSKEIVAISSWC
KQAYHSKVSCFMLQQIEEPCSLGVHAAVVIPPTWILRARRPQNTLKASKKKKRASFKRKSSKKGPEEGRW
RPFIIIRPTPSPLMKPLL VFNPKSGGNQGAII IQSFLWYLNPRQVFDLSQGGPKEALEMYRKVHNLRLILA
CGGDGTGVGWLSTLDQLRLKPPPPVAILPLGTGNDLARTLNWGGGYTDEPVSKILSHVEEENVVQLDRWD
LHAEPNPEAGPEDRDEGATDRLPLDVFNYYSLGFDAHVTFEFHESREANPEKFNFRNMFYAGTAFS
DFLMGSSKDLAKHIRVVC DGM LTPKI QDLKPQCVVFLNIPRYCAGTMPWGHHPGEHDFEPQRHDDGYLE
VIGFTMTSLAALQVGGHGERLTQCREVLTTSKAIPVQVDGEPCKLAASRIRIALRNQATMVQKAKRRA
APLHSDQQPVPEQLRIQVSRVSMHDYEAALHYDKEQLKEASVPLGTVVVPGSDLELCRAHIERLQQEPDG
AGAKSPTCQKLSPKWCFLDATTASRFYRIDRAQEHLNYVTEIAQDEIYILDPELLGASARPDLPPTSP
PTSPCSPTPRSLQDAAPPQGEELIEAAKRND FCKLQELHRAGGDLMHRDEQSRTLLHHAVSTGSKDVVR
YLLDHAPPEILDAVEENGETCLHQAAALGQRTICHYIVEAGASLMKTDQQGDTPRQRAEKAQDTELAAYL
ENRQHYQMIQREDQETAV
```

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

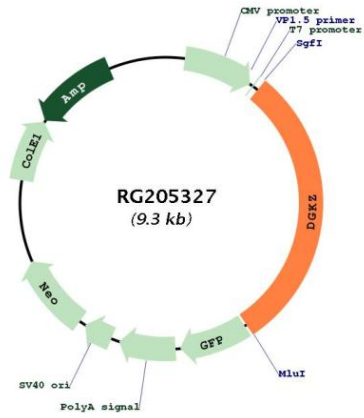


ACCN:

NM_003646

ORF Size:	2784 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:	<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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_003646.1
RefSeq Size:	3659 bp
RefSeq ORF:	2790 bp
Locus ID:	8525
UniProt ID:	Q13574
Cytogenetics:	11p11.2
Domains:	DAGKa, DAGKc, ANK, DAG_PE-bind
Protein Families:	Druggable Genome
Protein Pathways:	Glycerolipid metabolism, Glycerophospholipid metabolism, Metabolic pathways, Phosphatidylinositol signaling system
Gene Summary:	The protein encoded by this gene belongs to the eukaryotic diacylglycerol kinase family. It may attenuate protein kinase C activity by regulating diacylglycerol levels in intracellular signaling cascade and signal transduction. Alternative splicing occurs at this locus and multiple transcript variants encoding distinct isoforms have been identified. [provided by RefSeq, Nov 2010]

Product images:



Circular map for RG205327