

Product datasheet for **RC238976**

DGLUCY (NM_001286472) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DGLUCY (NM_001286472) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DGLUCY
Synonyms:	C14orf159
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC238976 representing NM_001286472
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCCTTACACTCCACCTGAGGTCCCGCCTTCCTCTGCCATAAGGAGTTTATTCTACAAAAGAAAC
 CAAACATCAGAAATACATCCAGCATGGCTGGAGAGCTCCGACCAGCCAGCCTGGTGGTCCTGCCAGGTC
 CCTTGCTCCAGCTTTTGAAGATTCTGCCAGGTCAACTGGTCTCTACCCCTGCTGGGCCAGAGTGAG
 CCAGAAAAGTGGATGCTGCCCCCTCAAGGTGCTATCTCAGAGACCAGGATGGGCCATCCCCAGTTCTGGA
 AATACGAGTTCGGTGCCTGCACCGGCAGCCTGGCTTCGCTGGAGCAGTACTCGGAGCAGCTGAAGGACAT
 GGTGGCCTTCTTCTGGGCTGCAGCTTCTCCCTGGAGGAGGCCTTGAGAAAAGCGGGGCTCCCCAGAAGA
 GACCCAGCAGGTCACAGCCAGCGGGTGCATACAAGACAACAGTGCCTTGTGTACCCATGCTGGCTTCT
 GCTGCCCTCTGGTGGTACAGATGAGGCCATTCCAAGGACAAGCTGGAAGGGCTGGTGCAGGCTGCTG
 CTCCTCGGAGGTGAGCAGGGGCAACCTGTTACATGGGGCAGCCAGAAGTGTGGGAATCAAAGAGCTT
 TCCAAACCTGCCTACGGGGATGCCATGGTGTGTCCCCAGGGGAGGTTCCAGTGTCTGGCTTCTCCGC
 TGACCAGTCTCGGAGCTGTCAGCAGCTGTGAGACCCCACTGGCTTTTGCCAGCATCCCAGGCTGCACAGT
 TATGACTGACCTGAAGGATGCAAAGGCTCCACCTGGTGTCTACCCAGAGAGAATTCCAGAGGTCAT
 CACATTTCCCAAGATCCTCTGCACTACAGCATCGCGTCAGTCTCTGCTTCTCAGAAGATCAGAGAAGTAG
 AGTCTATGATCGGCATAGACCCAGGGAACCGGGGATTGGGCACCTGCTCTGTAAGATGAGCTGCTGAA
 GGCCTCTCTCGCTGTCCATGCCCGCTCAGTGTCTACCACTGGGTCCCCACACATTTCAATCAT
 GAGCCTCAGAAAGACAGATGGCCACCAGGAGCTGTGCTCTGTTGCCTTCTGCAGGCTTGGAGA
 AGGAGTCCGCATAATCGTTGACAGAGAGCCTGGAAGTGCACCAAGAGATTGTTGAAGATGCTGTTGA
 GCAAGGTGTTCTGAAGACGCAGATCCCGATATTAACTTACCAAGGTGGATCAGTGAAGCTGCTCAGGCA
 TTCTGTGCAAAAATGGGGACCCGAGACACCTAGATTTGACCACCTGGTGGCCATAGAGCGTGCCGGAA
 GAGCTGCTGATGGCAATTACTACAATGCAAGGAAGATGAACATCAAGCACTTGGTTGACCCATTGACGA
 TCTTTTCTTGTGCGAAGAAGATTCTGGAATCTCATCAACTGGTGTCTTAACTGGGGAGGCTATGCC
 CTGGCCTGCGCACTCTACATCCTGTACTCATGTGCTGTCCACAGTCAGTACCTGAGGAAAGCAGTCGGAC
 CCTCCAGGGCACCTGGAGATCAGGCTGGACTCAGGCCCTCCCGTCCGTCATTAAGGAAGAAAAATGCT
 GGGCATCTTGGTGCAGCACAAGTCCGGAGTGGCTCTCGGGCATCGTGGCATGGAGGTGGATGGGCTG
 CCCTTCCACAACCCACGCCGAGATGATCCAGAAGCTGGTGGACGTACCACGGCACAGGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238976 representing NM_001286472
 Red=Cloning site Green=Tags(s)

MPFTLHLRSRLPSAIRSLILQKKPNIRNTSSMAGELRPASLVVLPRLAPAFERFCQVNTGPLPLLQOSE
 PEKWMLEPPQGAISETRMGHPQFWKYEFGACTGSLASLEQYSEQLKDMVAFFLGCFSLEEALEKAGLPRR
 DPAGHSQAGAYKTTVPCVTHAGFCPLVVTMRPIPKDKLEGLVRACCSLGGEQGPVHMGPPELLGIKEL
 SKPAYGDAMVCPPEVVPVFWPSPLTSLGAVSSCETPLAFASIPGCTVMTDLKDAKAPPGCLTPERIPVH
 HISQDPLHYSIASVSASQKIRELESIMIGIDPGNRGIGHLLCKDELLKASLSLSHARSVLITTFPPTHFNH
 EPPEETDPPGAVLVAFLQALEKEVAIIVDQRAWNLHQKIVEDAVEQGVLTQIPILTYGGSVAAAQA
 FLCKNGDPQTPRFDHLVAIERAGRAADGNYYNARKMNIKHLVDPIDDLFLAAKKIPGISSTGVSNWGGYA
 LACALYILYSCAVHSQYLKAVGPSRAPGDQAWTQALPSVIKEEKMLGILVQHKVRSVSGIVGMEVDGL
 PFHNTHAEMIQKLVDTTAAQV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

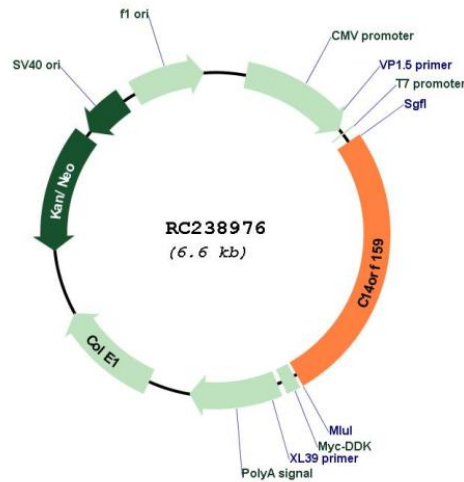
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001286472

ORF Size: 1743 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.
RefSeq:	NM_001286472.1 , NP_001273401.1
RefSeq Size:	2832 bp
RefSeq ORF:	1746 bp
Locus ID:	80017
UniProt ID:	Q7Z3D6
Cytogenetics:	14q32.11
MW:	63.2 kDa
Gene Summary:	D-glutamate cyclase that converts D-glutamate to 5-oxo-D-proline.[UniProtKB/Swiss-Prot Function]