

Product datasheet for **RG223957**

DGLUCY (NM_001102369) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DGLUCY (NM_001102369) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DGLUCY
Synonyms:	C14orf159
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG223957 representing NM_001102369
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCCTTACACTCCACCTGAGGTCCCGCCTTCCTCTGCCATAAGGAGTTTATTCTACAAAAGAAAC
 CAAACATCAGAAATACATCCAGCATGGCTGGAGAGCTCCGACCAGCCAGCCTGGTGGTCTGCCAGGTC
 CCTTGCTCCAGCTTTTGAAGATTCTGCCAGGTCAACTGGTCTCTACCCCTGCTGGGCCAGAGTGAG
 CCAGAAAAGTGGATGCTGCCCCCTCAAGGTGCTATCTCAGAGACCAGGATGGGCCATCCCGATTCTGGA
 AATACGAGTTCGGTGCCTGCACCGGCAGCCTGGCTTCGCTGGAGCAGTACTCGGAGCAGCTGAAGGACAT
 GGTGGCCTTCTTCTGGGCTGCAGCTTCTCCCTGGAGGAGCCTTGAGAAAAGCGGGGCTCCCAAGAAGA
 GACCCAGCAGGTACAGCCAGACAACAGTGCCTTGTGTTACCCATGCTGGCTTCTGCTGCCCTCTGGTGG
 TCAGGATGAGGCCATTCCAAGGACAAGCTGGAAGGGCTGGTGGGGCCTGCTGCTCCCTCGGAGAACT
 GTTGGGAATCAAAGAGCTTTCCAACCTGCCTACGGGGATGCCATGGTGTGTCCCAAGGGGAGGTTCCA
 GTTTCTGGCCTTCTCCGCTGACCAGTCTCGGAGCTGTACGACAGCTGTGAGACCCCACTGGCTTTTGCCA
 GCATCCCAAGGCTGCACAGTTATGACTGACCTGAAGGATGCAAAGGCTCCACCTGGTTGTCTCACCCAGA
 GAGAATTCAGAGGTCCATCACATTTCCAAGATCCTCTGCACTACAGCATCGCGTCAGTCTCTGTTCT
 CAGAAGATCAGAGAACTAGAGTCTATGATCGGCATAGACCCAGGGAACCGGGGATTGGGCACCTGCTCT
 GTAAGATGAGCTGCTGAAGGCCTCTCTCTCGTGTCCCATGCCCGCTCAGTGTCTCACCCTGGGTT
 CCCACACATTTCAATCATGAGCCTCCAGAAGAGACAGATGGCCACCAGGAGCTGTTGCTCTGGTTGCC
 TTCTCGCAGGCCTTGGAAGGAGGTCCGCAATCGTTGACCAGAGAGCCTGGAACCTGCACAGAAGA
 TTGTTGAAGATGCTGTTGAGCAAGGTGTTCTGAAGACGCAGATCCCGATATTAACCTACCAAGGTGGATC
 AGTGGAAAGCTGCTCAGGCATTCCTGTGCAAAAATGGGGACCCGACACACCTAGATTTGACCACCTGGTG
 GCCATAGAGCGTGCCGGAAGAGCTGCTGATGGCAATTACTACAATGCAAGGAAGATGAACATCAAGCACT
 TGGTTGACCCATTGACGATCTTTTCTTGTGCGAAGAAGATTCTGGAATCTCATCAACTGGTGTTC
 TAACTGGGGAGGCTATGCCCTGGCCTGCGCACTTACATCCTGTACTCATGTGCTGCCACAGTCAGTAC
 CTGAGGAAAGCAGTCGGACCTCCAGGGCACCTGGAGATCAGGCCTGGACTCAGGCCCTCCCGTCCGTCA
 TTAAGGAAGAAAAATGCTGGGCATCTTGGTGCAGCACAAGTCCGGAGTGGCGTCTCGGCATCGTGGG
 CATGGAGGTGGATGGGCTGCCCTCCACAACCCACGCCGAGATGATCCAGAAGCTGGTGGACGTCACC
 ACGGCACAGGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG223957 representing NM_001102369
 Red=Cloning site Green=Tags(s)

MPFTLHLRSLPSAIRSLILQKKPNIRNTSSMAGELRPASLVVLPRLAPAFERFCQVNTGPLPLLGQSE
 PEKWMLPPQGAISETRMGHPQFWKYEFGACTGSLASLEQYSEQLKDMVAFFLGCFSLEEALAKGLPRR
 DPAGHSQTTVPCVTHAGFCCPLVVTMRPIPKDKLEGLVRACCSLCELLGKELSKPAYGDAMVCPPEV
 VFWSPLTSLGAVSSCETPLAFASIPGCTVMTDLKDAKAPPGLTPERIPVHHISQDPLHYSIASVSAS
 QKIRELESMIGIDPGNRIGHLLCKDELLKASLSL SHARSLITTFPHTFNHEPPEETDGPFGAVALVA
 FLQALEKEVAIIVDQRAWNLHQKIVEDAVEQGVLTQIPILTYQGSVEAAQAFCKNGDPQTPRFDHLV
 AIERAGRAADGNYYNARKMNIKHLVDPIDDLFLAAKKIPGISSTGVSNWGGYALACALYILYSCAVHSQY
 LRKAVGPSRAPGDQAWTQALPSVIKEEKMLGILVQHKVRSVSGIVGMEVDGLPFHNTHAEMIQLVDVT
 TAQV

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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_001102369.2 , NP_001095839.1
RefSeq Size:	2763 bp
RefSeq ORF:	1695 bp
Locus ID:	80017
UniProt ID:	Q7Z3D6
Cytogenetics:	14q32.11
Gene Summary:	D-glutamate cyclase that converts D-glutamate to 5-oxo-D-proline.[UniProtKB/Swiss-Prot Function]