

Product datasheet for **RG218607**

DGLUCY (NM_001102368) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DGLUCY (NM_001102368) 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:

>RG218607 representing NM_001102368
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCCTTCACTCCACCTGAGGTCCCGCCTTCCTCTGCCATAAGGAGTTTATTCTACAAAAGAAAC
 CAAACATCAGAAATACATCCAGCATGGCTGGAGAGCTCCGACCAGCCAGCCTGGTGGTCCTGCCAGGTC
 CCTTGCTCCAGCTTTTGAAGATTCTGCCAGGTCAACTGCTCTACCCCTGCTGGGCCAGAGTGAG
 CCAGAAAAGTGGATGCTGCCCCCTCAAGGTGCTATCTCAGAGACCAGGATGGGCCATCCCCAGTTCTGGA
 AATACGAGTTCGGTGCCTGCACCGGCAGCCTGGCTTCGCTGGAGCAGTACTCGGAGCAGCTGAAGGACAT
 GGTGGCCTTCTTCTGGGCTGCAGCTTCTCCCTGGAGGAGCCTTGAGAAAAGCGGGGCTCCCCAGAAGA
 GACCCAGCAGGTCACAGCCAGCGGGTGCATACAAGACAACAGTGCCTTGTGTACCCATGCTGGCTTCT
 GCTGCCCTCTGGTGGTACAGATGAGGCCATTCCAAGGACAAGCTGGAAGGGCTGGTGGGGCCTGCTG
 CTCCTCGGAGGTGAGCAGGGGCAACCTGTTACATGGGGCAGCCAGAAGTGTGGGAATCAAAGAGCTT
 TCCAAACCTGCCTACGGGGATGCCATGGTGTGTCCCCAGGGGAGGTTCCAGTGTCTGGCCTTCTCCGC
 TGACCAGTCTCGGAGCTGTCAGCAGCTGTGAGACCCCACTGGCTTTTGCCAGCATCCCAGGCTGCACAGT
 TATGACTGACCTGAAGGATGCAAAGGCTCCACCTGGTGTCTACCCAGAGAGAATCCAGAGGTCAT
 CACATTTCCCAAGATCCTCTGCACTACAGCATCGCGTCAGTCTCTGCTTCTCAGAAGATCAGAGAAGTAG
 AGTCTATGATCGGCATAGACCCAGGGAACCGGGGATTGGGCACCTGCTCTGTAAGATGAGCTGCTGAA
 GGCCTCTCTCGCTGTCCCATGCCCGCTCAGTGTCTACCACTGGGTCCCCACACATTTCAATCAT
 GAGCCTCCAGAAGACAGATGGCCCACCAGGAGCTGTGCTCTGTTGCCTTCTCGAGCCTGGAGA
 AGGAGTCCGCAATAATCGTTGACCAGAGAGCCTGGAAGTGCACCAGAAGATTGTTGAAGATGCTGTTGA
 GCAAGGTGTTCTGAAGACGCAGATCCCGATATTAACCTACCAAGGTGGATCAGTGAAGCTGCTCAGGCA
 TTCTGTGCAAAAATGGGGACCCGAGACACCTAGATTTGACCACCTGGTGGCCATAGAGCGTGCCGGAA
 GAGCTGCTGATGGCAATTACTACAATGCAAGGAAGATGAACATCAAGCACTTGGTTGACCCATTGACGA
 TCTTTTTCTTGTGCGAAGAAGATTCTGGAATCTCATCAACTGGAGTGGTGGATGGAGGCAACGAGCTT
 GGGATGGTAAAGTCAAGGAGGCTGTGAGGAGGCACATACGGCACGGGGATGTCATCGCCTGCGACGTGG
 AGGCTGACTTTGCCGTCATTGCTGGTGTCTAACTGGGGAGGCTATGCCCTGGCCTGCGCACTCTACAT
 CCTGTACTCATGTGCTGCCACAGTCACTACCTGAGGAAAGCAGTCGGACCTCCAGGGCACCTGGAGAT
 CAGGCCTGGACTCAGGCCCTCCCGTCGGTCATTAAGGAAGAAAAAATGCTGGGCATCTTGGTGCAGCACA
 AAGTCCGGAGTGGCGTCTCGGGCATCGTGGGCATGGAGGTGGATGGGCTGCCCTCCACAACACCCACGC
 CGAGATGATCCAGAAGCTGGTGGACGTACCACGGCACAGGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG218607 representing NM_001102368
 Red=Cloning site Green=Tags(s)

MPFTLHLRSRLPSAIRSLILQKKPNIRNTSSMAGELRPASLVVLPRSLAPAFERFCQVNTGPLPLLGQSE
 PEKWMLPPQGAISETRMGHPQFWKYEFGACTGSLASLEQYSEQLKDMVAFFLGCFSFLEEALAKGLPRR
 DPAGHSQAGAYKTTVPCVTHAGFCCLVVTMRPIPKDKLEGLVRACCSLGGEQQPVHMGDPELLGIKEL
 SKPAYGDAMVCPPEVPVFWPSPLTSLGAVSSCETPLAFASIPGCTVMTDLKDAKAPPGLTPERIVEVH
 HISQDPLHYSIASVSASQKIRELESMIGIDPGNRGIHLLCKDELLKASLSLSHARSVLITTFPPTHFNH
 EPPEETDPPGVALVAFLLQALEKEVAIIVDQRAWNLHQKIVEDAVEQGVLTQIPILTYQGSVEAAQA
 FLCKNGDPQTFRFDHLVAIERAGRAADGNYYNARKMNIKHLVDPIDDLFLAAKKIPGISSTGVGDGNGEL
 GMGKVKAVRRHIRHGDVIACDVEADFVIAIGVSNWGGYALACALYILYSCAVHSQYLKAVGPRSAPGD
 QAWTQALPSVIKEEKMLGILVQHKVRSVSGIVGMEVDGLPFHNTHAEMIQLVDVTTAQQ

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-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_001102368.3
RefSeq Size:	2763 bp
RefSeq ORF:	1866 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]