

## Product datasheet for **RG223847**

### **DGLUCY (NM\_001102366) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DGLUCY (NM_001102366) 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:**

>RG223847 representing NM\_001102366  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCCTTCACTCCACCTGAGGTCCCGCTTCCCTCTGCCATAAGGAGTTTATTCTACAAAAGAAAC  
 CAAACATCAGAAATACATCCAGCATGGCTGGAGAGCTCCGACCAGCCAGCCTGGTGGTCCTGCCAGGTC  
 CCTTGCTCCAGCTTTTGAAGATTCTGCCAGGTCAACTGGTCTCTACCCCTGCTGGGCCAGAGTGAG  
 CCAGAAAAGTGGATGCTGCCCCCAAGGTGCTATCTCAGAGACCAGGATGGGCCATCCCCAGTTCTGGA  
 AATACGAGTTCGGTGCCTGCACCGGCAGCCTGGCTTCGCTGGAGCAGTACTCGGAGCAGCTGAAGGACAT  
 GGTGGCCTTCTTCTGGGCTGCAGCTTCTCCCTGGAGGAGCCTTGAGAAAAGCGGGGCTCCCCAGAAGA  
 GACCCAGCAGGTCACAGCCAGACAACAGTGCCTTGTGTTACCCATGCTGGCTTCTGCTGCCCTCTGGTGG  
 TCACGATGAGGCCATTCCAAGGACAAGTGGAAAGGCTGGTGGGGCCTGCTGCTCCCTCGGAGGTGA  
 GCAGGGGCAACCTGTTACATGGGCGACCCAGAAGTGTGGGAATCAAAGAGCTTCCAACCTGCCTAC  
 GGGGATGCCATGGTGTGTCCCCAGGGAGGTTCCAGTGTCTGGCCTTCTCCGCTGACCACTCTCGGAG  
 CTGTCAGCAGCTGTGAGACCCCACTGGCTTTTGCACGATCCCAGGCTGCACAGTTATGACTGACCTGAA  
 GGATGCAAAGGCTCCACCTGTTGTCTACCCAGAGAGAATTCCAGAGGTCATCACATTTCCAAGAT  
 CCTCTGCACTACAGCATCGCGTCAGTCTCTGCTTCTCAGAAGTCAGAGAAGTAGAGTCTATGATCGGCA  
 TAGACCCAGGGAACCGGGGATTGGGCACCTGCTCTGTAAGATGAGCTGCTGAAGGCTCTCTCTCGCT  
 GTCCATGCCCGCTCAGTGTCTACCACTGGGTTCCCACACATTTCAATCATGAGCCTCCAGAAGAG  
 ACAGATGGCCCACAGGAGCTGTGCTCTGGTTGCCTTCTGCAGGCTTGAGAAAGGAGGTCGCCATAA  
 TCGTTGACCAGAGAGCCTGGAACCTGCACCAGAAGATTGTTGAAGATGCTGTTGAGCAAGGTGTTGAA  
 GACGCAGATCCCGATATTAACCTACCAAGGTGGATCAGTGAAGCTGCTCAGGCATTCTGTGCAAAAAT  
 GGGGACCCGACAGACCTAGATTTGACCACCTGGTGGCCATAGAGCGTCCCGGAAGAGCTGCTGATGGCA  
 ATTACTACAATGCAAGGAAGATGAACATCAAGCACTTGGTTGACCCATTGACGATCTTTTTCTGCTGC  
 GAAGAAGATTCTGGAATCTCATCAACTGGAGTCGGTGTGGAGGCAACGAGCTTGGGATGGGTAAGTC  
 AAGGAGGCTGTGAGGAGGCACATACGGCACGGGATGTCATCGCCTGCGACTGGAGGCTGACTTTGCCG  
 TCATTGCTGGTGTCTAACTGGGAGGCTATGCCCTGGCCTGCGCACTTACATCTGTACTCATGTGC  
 TGTCACAGTCAGTACCTGAGGAAAGCAGTCGGACCTCCAGGGCACCTGGAGATCAGGCCTGGACTCAG  
 GCCCTCCCGTCGGTCATTAAGGAAGAAAAATGCTGGGCATCTTGGTGCAGCACAAGTCCGGAGTGGCG  
 TCTCGGGCATCGTGGGCATGGAGGTGGATGGGCTGCCCTTCCACAACACCCACGCCGAGATGATCCAGAA  
 GCTGGTGGACGTCACCACGGCACAGTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG223847 representing NM\_001102366  
 Red=Cloning site Green=Tags(s)

MPFTLHLRSRLPSAIRSLILQKKPNIRNTSSMAGELRPASLVVLPRSLAPAFERFCQVNTGPLPLLGQSE  
 PEKMWLPPQGAISETRMGHPQFWKYEFGACTGSLASLEQYSEQLKDMVAFFLGCFSLEEALAKGLPRR  
 DPAGHSQTTVPCVTHAGFCCLVVTMRPIPDKLEGLVRACCSLGGEQQPVMHMGDPELLGIKELSKPAY  
 GDAMVCPPEVPVFWPSPLTSLGAVSSCETPLAFASIPGCTVMTDLKDAKAPPGLTPERIPVHHISQD  
 PLHYSIASVSASQKIRELESMIGIDPGRNGIGHLLCKDELLKASLSL SHARSVLITTFPPTHFNHEPPEE  
 TDGPPGAVALVAFLLQALEKEVAIIVDQRAWNLHQKIVEDAVEQGVLTQIPILTYQGSVEAAQAFCKN  
 GDPQTPRFDHLVAIERAGRAADGNYYNARKMNIKHLVDPIDDLFLAAKKIPGISSTGVGDGNGELGMKV  
 KEAVRRHIRHGDVIACDVEADFVIAIGVSNWGGYALACALYILYSCAVHSQYLKAVGPSRAPGDQAWTQ  
 ALPSVIKEEKMLGILVQHKVRSVSGVIGMEVDGLPFHNTHAEMIQKLVDTTAQV

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI



<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001102366.2</a> , <a href="#">NP_001095836.1</a>
<b>RefSeq Size:</b>	3164 bp
<b>RefSeq ORF:</b>	1851 bp
<b>Locus ID:</b>	80017
<b>UniProt ID:</b>	<a href="#">Q7Z3D6</a>
<b>Cytogenetics:</b>	14q32.11
<b>Gene Summary:</b>	D-glutamate cyclase that converts D-glutamate to 5-oxo-D-proline.[UniProtKB/Swiss-Prot Function]