

Product datasheet for **RG223896**

DGLUCY (NM_001102367) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DGLUCY (NM_001102367) 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:

>RG223896 representing NM_001102367
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCCTTCACTCCACCTGAGGTCCCGCCTTCCTCTGCCATAAGGAGTTTATTCTACAAAAGAAAC
 CAAACATCAGAAATACATCCAGCATGGCTGGAGAGCTCCGACCAGCCAGCCTGGTGGTCCTGCCAGGTC
 CCTTGCTCCAGCTTTTGAAGATTCTGCCAGGTCAACTGGTCTCTACCCCTGCTGGGCCAGAGTGAG
 CCAGAAAAGTGGATGCTGCCCCCTCAAGGTGCTATCTCAGAGACCAGGATGGGCCATCCCCAGTTCTGGA
 AATACGAGTTCGGTGCCTGCACCGGCAGCCTGGCTTCGCTGGAGCAGTACTCGGAGCAGCTGAAGGACAT
 GGTGGCCTTCTTCTGGGCTGCAGCTTCTCCCTGGAGGAGCCTTGAGAAAAGCGGGGCTCCCCAGAAGA
 GACCCAGCAGGTACAGCCAGACAACAGTGCCTTGTGTTACCCATGCTGGCTTCTGCTGCCCTCTGGTGG
 TCACGATGAGGCCATTCCAAGGACAAGTGGAAAGGCTGGTGGGGCTGCTGCTCCCTCGGAGGTGA
 GCAGGGCAACCTGTTCCATGCGGCAGCCAGAAGTGTGGGAATCAAAGAGCTTCCAACCTGCCTAC
 GGGGATGCCATGGTGTGTCCCCAGGGAGGTTCCAGTGTCTGGCCTTCTCCGCTGACCACTCTCGGAG
 CTGTCAGCAGCTGTGAGACCCCACTGGCTTTTGCACGATCCCAGGCTGCACAGTTATGACTGACCTGAA
 GGATGCAAAGGCTCCACCTGTTGTCTACCCAGAGAGAATCCAGAGGTCATCACATTTCCAAGAT
 CCTCTGCACTACAGCATCGCGTCAGTCTCTGCTTCTCAGAAGTCAGAGAAGTAGAGTCTATGATCGGCA
 TAGACCCAGGGAACCGGGGATTGGGCACCTGCTCTGTAAGATGAGCTGCTGAAGGCTCTCTCTCGCT
 GTCCATGCCCGCTCAGTGTCTACCACTGGGTTCCCACACATTTCAATCATGAGCCTCCAGAAGAG
 ACAGATGGCCACCAGGAGCTGTGCTCTGGTTGCCTTCTGCAGGCTTGAGAAAGGAGGTCGCCATAA
 TCGTTGACCAGAGAGCCTGGAACCTGCACCAGAAGATTGTTGAAGATGCTGTTGAGCAAGGTCTGAA
 GACGCAGATCCCGATATTAACCTACCAAGGTGGATCAGTGAAGCTGCTCAGGCATTCCTGTGCAAAAAT
 GGGGACCCGACAGACCTAGATTTGACCACCTGGTGGCCATAGAGCGTCCCGAAGAGCTGCTGATGGCA
 ATTACTACAATGCAAGGAAGATGAACATCAAGCACTTGGTTGACCCATTGACGATCTTTTTCTGCTGC
 GAAGAAGATTCTGGAATCTCATCAACTGGAGTCGGTATGGAGGCAACGAGCTTGGGATGGGTAAGTC
 AAGGAGGCTGTGAGGAGGCACATACGGCACGGGATGTCATCGCCTGCGACTGGAGGCTGACTTTGCCG
 TCATTGCTGGTGTCTAACTGGGAGGCTATGCCCTGGCCTGCGCACTTACATCTGTACTCATGTGC
 TGTCACAGTCAGTACCTGAGGAAAGCAGTCGGACCTCCAGGGCACCTGGAGATCAGGCCTGGACTCAG
 GCCCTCCCGTCGGTCATTAAGGAAGAAAAATGCTGGGCATCTTGGTGCAGCACAAGTCCGGAGTGGCG
 TCTCGGGCATCGTGGGCATGGAGGTGGATGGGCTGCCCTCCACAACACCCACGCCGAGATGATCCAGAA
 GCTGGTGGACGTACCACGGCACAGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG223896 representing NM_001102367
 Red=Cloning site Green=Tags(s)

MPFTLHLRSRLPSAIRSLILQKKPNIRNTSSMAGELRPASLVVLPRSLAPAFERFCQVNTGPLPLLGQSE
 PEKMWLPPQGAISETRMGHPQFWKYEFGACTGSLASLEQYSEQLKDMVAFFLGCFSLEEALAKGLPRR
 DPAGHSQTTVPCVTHAGFCCLVVTMRPIPDKLEGLVRACCSLGGEQGPVHMGDPELLGIKELSKPAY
 GDAMVCPPEVPVFWPSPLTSLGAVSSCETPLAFASIPGCTVMTDLKDAKAPPGLTPERIPVHHISQD
 PLHYSIASVSASQKIRELESMIGIDPGRNGIGHLLCKDELLKASLSLSHARSVLITTFPPTHFNHEPPEE
 TDGPPGAVALVAFLQALEKEVAIIVDQRAWNLHQKIVEDAVEQGVLTQIPILTYQGSVEAAQAFCKN
 GDPQTPRFDHLVAIERAGRAADGNYYNARKMNIKHLVDPIDDLFLAAKKIPGISSTGVGDGNGELGMKV
 KEAVRRHIRHGDVIACDVEADFAVIAGVSNWGGYALACALYILYSCAVHSQYLKAVGPRSAPGDQAWTQ
 ALPSVIKEEKMLGILVQHKVRSVSGVIGMEVDGLPFHNTHAEMIQKLVDTTAQV

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_001102367.2 , NP_001095837.1
RefSeq Size:	2930 bp
RefSeq ORF:	1851 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]