

Product datasheet for **RG209454**

DGLUCY (NM_024952) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DGLUCY (NM_024952) 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:

>RG209454 representing NM_024952
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCTTCACTCCACCTGAGGTCCCGCTTCCTCTGCCATAAGGAGTTTATTCTACAAAAGAAAC
 CAAACATCAGAAATACATCCAGCATGGCTGGAGAGCTCCGACCAGCCAGCCTGGTGGTCTGCCAGGTC
 CCTTGCTCCAGCTTTTGAAGATTCTGCCAGGTCAACTGCTCTACCCCTGCTGGGCCAGAGTGAG
 CCAGAAAAGTGGATGCTGCCCCCAAGGTGCTATCTCAGAGACCAGGATGGGCCATCCCCAGTTCTGGA
 AATACGAGTTCGGTGCCTGCACCGGTAGCTGGCTTCGCTGGAGCAGTACTCGGAGCAGCTGAAGGACAT
 GGTGGCCTTCTTCTGGGCTGCAGCTTCTCCCTGGAGGAGCCTTGAGAAAAGCGGGGCTCCCCAGAAGA
 GACCCAGCAGGTACAGCCAGACAACAGTGCCTTGTGTTACCCATGCTGGCTTCTGCTGCCCTCTGGTGG
 TCACGATGAGGCCATTCCAAGGACAAGTGGAAAGGCTGGTGGGGCTGCTGCTCCCTCGGAGGTGA
 GCAGGGCAACCTGTTACATGGGCGACCCAGAAGTGTGGGAATCAAAGAGCTTCCAACCTGCCTAC
 GGGGATGCCATGGTGTGTCCCCAGGGAGGTTCCAGTGTCTGGCCTTCTCCGCTGACCACTCTCGGAG
 CTGTCAGCAGCTGTGAGACCCCACTGGCTTTTGCACGATCCCAGGCTGCACAGTTATGACTGACCTGAA
 GGATGCAAAGGCTCCACCTGTTGTCTACCCAGAGAGAATCCAGAGGTCATCACATTTCCAAGAT
 CCTCTGCACTACAGCATCGCGTCACTCTGCTTCTCAGAAGTCAGAGAAGTAGAGTCTATGATCGGCA
 TAGACCCAGGGAACCGGGGATTGGGCACCTGCTCTGTAAGATGAGCTGCTGAAGGCTCTCTCTCGCT
 GTCCCATGCCCGCTCAGTGTCTACCACTGGGTTCCCACACATTTCAATCATGAGCCTCCAGAAGAG
 ACAGATGGCCACCAGGAGCTGTGCTCTGGTTGCCTTCTGCAGGCTTGAGAAAGGAGGTCGCCATAA
 TCGTTGACCAGAGAGCCTGGAACCTGCACCAGAAGATTGTTGAAGATGCTGTTGAGCAAGTGTCTGAA
 GACGCAGATCCCGATATTAACCTACCAAGGTGGATCAGTGAAGCTGCTCAGGCATTCCTGTGCAAAAAT
 GGGGACCCGACAGACCTAGATTTGACCACCTGGTGGCCATAGAGCGTCCCGAAGAGCTGCTGATGGCA
 ATTACTACAATGCAAGGAAGATGAACATCAAGCACTTGGTTGACCCATTGACGATCTTTTTCTGCTGC
 GAAGAAGATTCCTGGAATCTCATCAACTGGAGTCGGTGTGGAGGCAACGAGCTTGGGATGGGTAAGTC
 AAGGAGGCTGTGAGGAGGCACATACGGCACGGGATGTCATCGCCTGCGACTGGAGGCTGACTTTGCCG
 TCATTGCTGGTGTCTAACTGGGAGGCTATGCCCTGGCCTGCGCACTTACATCTGTACTCATGTGC
 TGTCACAGTCAGTACCTGAGGAAAGCAGTCGGACCTCCAGGGCACCTGGAGATCAGGCCTGGACTCAG
 GCCCTCCCGTCGGTCATTAAGGAAGAAAAATGCTGGGCATCTTGGTGCAGCACAAGTCCGGAGTGGCG
 TCTCGGGCATCGTGGGCATGGAGGTGGATGGGCTGCCCTCCACAACACCCACGCCGAGATGATCCAGAA
 GCTGGTGGACGTACCACGGCACAGTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG209454 representing NM_024952
 Red=Cloning site Green=Tags(s)

MPFTLHLRSRLPSAIRSLILQKKPNIRNTSSMAGELRPASLVVLPRLAPAFERFCQVNTGPLPLLGQSE
 PEKWMLPPQGAISETRMGHPQFWKYEFGACTGSLASLEQYSEQLKDMVAFFLGCFSLEEALAKGLPRR
 DPAGHSQTTVPCVTHAGFCCLPVVTRMPKIPKDKLEGLVRACCSLGGEQGPVHMGPPELLGIKELSKPAY
 GDAMVCPPEVPVFWPSPLTSLGAVSSCETPLAFASIPGCTVMTDLKDAKAPPGLTPERIPVHHISQD
 PLHYSIASVSASQKIRELESMIGIDPGRNGIGHLLCKDELLKASLSLSHARSVLITTFPPTHFNHEPPEE
 TDGPPGAVALVAFLLQALEKEVAIIVDQRAWNLHQKIVEDAVEQGVLTQIPILTYQGGVAAQAFCKN
 GDPQTPRFDHLVAIERAGRAADGNYYNARKMNIKHLVDPIDDLFLAAKKIPGISSTGVGDGGMELGMKV
 KEAVRRHIRHGDVIACDVEADFVIAIGVSNWGGYALACALYILYSCAVHSQYLKAVGPRSAPGDQAWTQ
 ALPSVIKEEKMLGILVQHKVRSVSGVIGMEVDGLPFHNTAEMIQKLVDTTAQV

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_024952

ORF Size: 1848 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:

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_024952.3](#)

RefSeq Size: 2986 bp

RefSeq ORF: 1851 bp

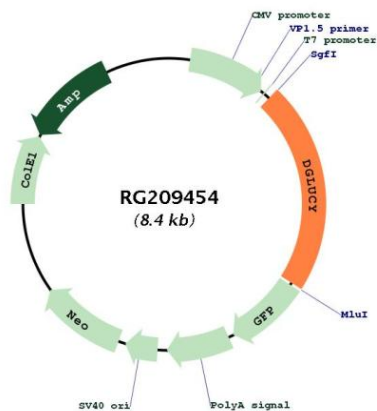
Locus ID: 80017

UniProt ID: [Q7Z3D6](#)

Cytogenetics: 14q32.11

Gene Summary: D-glutamyl cyclase that converts D-glutamate to 5-oxo-D-proline.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG209454