

Product datasheet for **RG238976**

DGLUCY (NM_001286472) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | DGLUCY (NM_001286472) 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:

>RG238976 representing NM_001286472.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCCCTTCACACTCCACCTGAGGTCCCGCCTTCCTCTGCCATAAGGAGTTTATTCTACAAAAGAAA
CCAAACATCAGAAATACATCCAGCATGGCTGGAGAGCTCCGACCAGCCAGCCTGGTGGCTCTGCCAGG
TCCTTGTCTCCAGCTTTTGAAGATTCTGCCAGGTCAACACTGGTCTCTACCCCTGCTGGGCCAGAGT
GAGCCAGAAAAGTGGATGCTGCCCCCTCAAGGTGCTATCTCAGAGACCAGGATGGCCATCCCCAGTTC
TGGAAATACGAGTTCGGTGCCTGCACCGGCAGCCTGGCTTCGCTGGAGCAGTACTCGGAGCAGCTGAAG
GACATGGTGGCCTTCTTCTGGGCTGCAGCTTCTCCCTGGAGGAGGCCTTGGAGAAAGCGGGGCTCCCC
AGAAGAGACCCAGCAGGTACAGCCAGGCGGGTGCATACAAGACAACAGTGCCTTGTGTTACCCATGCT
GGCTTCTGCTGCCCTCTGGTGGTACGATGAGGCCATTCCCAAGGACAAGCTGGAAGGGCTGGTGGC
GCCTGCTGCTCCCTCGGAGGTGAGCAGGGGCAACCTGTTACATGGGCGACCCAGAAGTGTGGGAATC
AAAGAGCTTTCCAAACCTGCCTACGGGGATGCCATGGTGTGTCCCCAGGGGAGGTTCCAGTGTCTGG
CCTTCTCCGCTGACCAGTCTCGGAGCTGTCAGCAGCTGTGAGACCCCACTGGCTTTTGCAGCATCCCA
GGCTGCACAGTTATGACTGACCTGAAGGATGCAAAGGCTCCACCTGGTTGTCTACCCCCAGAGAGAATT
CCAGAGGTCCATCACATTTCCAAAGATCCTCTGCACTACAGCATCGCGTCAGTCTCTGCTTCTCAGAAG
ATCAGAGAACTAGAGTCTATGATCGGCATAGACCCAGGGAACCGGGGATTGGGCACCTGCTCTGTAAA
GATGAGCTGCTGAAGGCCTCTCTCTCGCTGTCCATGCCCGCTCAGTGTCTATCACCCTGGGTTCCCC
ACACATTTCAATCATGAGCCTCCAGAAGAGACAGATGGCCACCAGGAGCTGTTGCTCTGGTTGCCTTC
CTGCAGGCCTTGGAGAAGGAGGTGCCATAATCGTTGACCAGAGGCCTGGAAGTGCACCAGAAGATT
GTTGAAGATGCTGTTGAGCAAGGTGTTCTGAAGACGCAGATCCCGATATTAACCTACCAAGGTGGATCA
GTGGAAGCTGCTCAGGCATTCTGTGCAAAAATGGGGACCCGACAGACACCTAGATTTGACCACCTGGTG
GCCATAGAGCGTGCCGGAAGAGCTGCTGATGGCAATTACTACAATGCAAGGAAGTGAACATCAAGCAC
TTGGTTGACCCCATGACGATCTTTTTCTGTGCGAAGAAGATTCTGGAATCTCATCAACTGGTGT
TCTAAGTGGGAGGCTATGCCCTGGCCTGCGCACTCTACATCCTGTACTCATGTGCTGTCCACAGTCAG
TACCTGAGGAAAGCAGTCGGACCCTCCAGGGCACCTGGAGATCAGGCCTGGACTCAGGCCCTCCCGTCG
GTCATTAAGGAAGAAAAATGCTGGGCATCTTGGTGCAGCACAAGTCCGGAGTGGCGTCTCGGCCATC
GTGGGCATGGAGGTGGATGGGCTGCCCTCCACAACCCACGCCGAGATGATCCAGAAGCTGGTGGAC
GTCACCACGGCACAGGTG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```

Protein Sequence:

>Peptide sequence encoded by RG238976
 Blue=ORF Red=Cloning site Green=Tag(s)

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MPFTLHLRSLPSAIRSLILQKPNIRNTSSMAGELRPASLVVLPRLAPAFERFCQVNTGPLPLLQGS
EPEKWMLPPQGAISETRMGHPQFWKYEFGACTGSLASLEQYSEQLKDMVAFFLGCSFSLEEALKAGLP
RRDPAGHSQAGAYKTTVPCVTHAGFCCPLVVTMRPIPDKLEGLVRACCSLGEQGPVHMGDPELLGI
KELSKPAYGDAMVCPGEPVFPWPSPLTSLGAVSSCETPLAFASIPGCTVMTDLKDAKAPPGLTPERI
PEVHHISQDPLHYSIASVSASQKIRELESMIGIDPGNRIGHLLCKDELKASLSLSHARSVLITGFP
THFNHEPPEETDGPPGAVALVAFLEKEVAIIVDQRAWNLHQKIVEDAVEQGVLTQIPILTYQGGG
VEAAQAFLECKNGDPQTPRFDHLVAIERAGRAADGNYYNARKMNIKHLVDPIDDLFLAAKIPGISSTGV
SNWGGYALACALYILYSCAVHSQYLRKAVGPSRAPGDQAWTQALPSVIKEEKMLGILVQHKVRSVSGI
VGMEVDGLPFHNTHAEMIQKLVDVTTAQQ
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
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Restriction Sites:

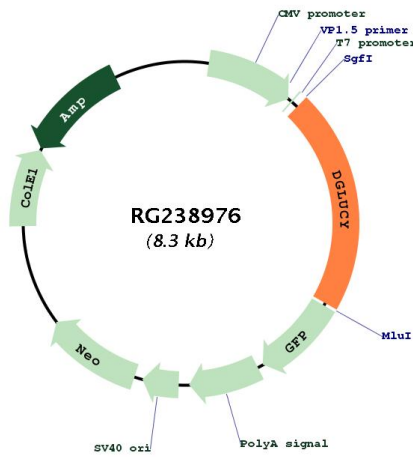
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001286472

ORF Size: 1743 bp

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|------------------------|--|
| 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). |
| RefSeq: | NM_001286472.1 , NP_001273401.1 |
| RefSeq Size: | 2832 bp |
| RefSeq ORF: | 1746 bp |
| Locus ID: | 80017 |
| UniProt ID: | Q7Z3D6 |
| Cytogenetics: | 14q32.11 |
| MW: | 63.2 kDa |
| Gene Summary: | D-glutamate cyclase that converts D-glutamate to 5-oxo-D-proline.[UniProtKB/Swiss-Prot Function] |