

Product datasheet for **SC316944**

DGLUCY (NM_001102369) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DGLUCY (NM_001102369) Human Untagged Clone
Tag:	Tag Free
Symbol:	DGLUCY
Synonyms:	C14orf159
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC316944 representing NM_001102369.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGCCCTTCACACTCCACCTGAGGTCCCGCTTCCCTCTGCCATAAAGGATTTGATTCTACAAAAGAAA
CCAAACATCAGAAATACATCCAGCATGGCTGGAGAGCTCCGACCAGCCAGCCTGGTGGTCTGCCAGG
TCCTTGTCTCCAGCTTTTAAAAGATTCTGCCAGGTCAACACTGGTCTCTACCCCTGCTGGGCCAGAGT
GAGCCAGAAAAGTGGATGCTGCCCCCTCAAGGTGCTATCTCAGAGACCAGGATGGCCATCCCCAGTTC
TGGAAATACGAGTTCGGTGCCTGCACCGGCAGCCTGGCTTCGCTGGAGCAGTACTCGGAGCAGTGAAG
GACATGGTGGCTTCTTCTGGGCTGCAGCTTCTCCCTGGAGGAGGCCTTGGAGAAAGCGGGGCTCCCC
AGAAGAGACCCAGCAGGTACAGCCAGACAACAGTGCCTTGTGTTACCCATGCTGGCTTCTGCTGCCCT
CTGGTGGTCCAGTACGAGGCCATTCCCAAGGACAAGCTGGAAGGGCTGGTGGGGCTGCTGCTCCCTC
GGAGAAGTGTGGGAATCAAAGAGCTTTCAAACCTGCCTACGGGGATGCCATGGTGTGCCCCAGGG
GAGGTTCCAGTGTCTGGCTTCTCCGCTGACCAGTCTCGGAGCTGTGAGAGCTGTGAGACCCACTG
GCTTTTGCAGCATCCCAGGCTGCACAGTTATGACTGACCTGAAGGATGCAAAGGCTCCACTGGTTGT
CTACCCCCAGAGAGAATTCAGAGGTCCATCACATTTCCAAGATCCTCTGCACTACAGCATCGCGTCA
GTCTCTGCTTCTCAGAAGATCAGAGAACTAGAGTCTATGATCGGCATAGACCCAGGGAACCGGGGATT
GGGCACCTGCTCTGTAAGATGAGCTGCTGAAGGCCTCTCTCGCTGTCCCATGCCCGCTCAGTGTCTC
ATCACCCTGGGTTCCACACATTTCAATCATGAGCCTCCAGAAGAGACAGATGGCCCACCAGGAGCT
GTTGCTCTGGTTGCCCTTCTGCAGGCCTTGGAGAAGGAGGTGCCATAATCGTTGACCAGAGAGCCTGG
AACTTCCACCAGAAGATTGTTGAAGATGCTGTTGAGCAAGGTGTTCTGAAGACGCAGATCCCGATATTA
ACTTACCAAGGTGGATCAGTGGAAAGCTGCTCAGGCATTCTGTGCAAAAATGGGGACCCGCAGACACT
AGATTTGACCACCTGGTGGCCATAGAGCGTGCCGGAAGAGCTGCTGATGGCAATTAATAAATGCAAGG
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TGTGCTGTCCACAGTACGTACCTGAGGAAAGCAGTCGGACCCCTCCAGGGCACCTGGAGATCAGGCCTGG
ACTCAGGCCCTCCCGTCGGTCAATTAAGGAAGAAAAATGCTGGGCATCTTGGTGCAGCACAAAGTCCGG
AGTGGCGTCTCGGCATCGTGGCATGGAGGTGGATGGGCTGCCCTTCCACAACACCCACGCCGAGATG
ATCCAGAAGCTGGTGGACGTACCACGGCACAGGTGTA
ACGGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGCGC
  
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Restriction Sites: SgfI-MluI

Plasmid Map: □

ACCN: NM_001102369

Insert Size: 1695 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001102369.2](#)

RefSeq Size: 2781 bp

RefSeq ORF: 1695 bp

Locus ID: 80017

UniProt ID: [Q7Z3D6](#)

Cytogenetics: 14q32.11

MW: 61.1 kDa

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

Transcript Variant: This variant (5) differs in the 5' UTR, uses an alternate in-frame splice site, and lacks an alternate in-frame exon, compared to variant 1. The encoded isoform (c) is shorter than isoform a.