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Product datasheet for SC115924

GLO1 (NM_006708) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GLO1 (NM_006708) Human Untagged Clone
Tag:	Tag Free
Symbol:	GLO1
Synonyms:	GLOD1; GLYI; HEL-S-74
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC115924 sequence for NM_006708 edited (data generated by NextGen Sequencing)

ATGGCAGAACCGCAGCCCCCGTCCGGCGGCCTCACGGACGAGGCCGCCCTCAGTTGCTGC
TCCGACGCGGACCCCAGTACCAAGGATTTTCTATTGCAGCAGACCATGCTACGAGTGAAG
GATCCTAAGAAGTCACTGGATTTTTATACTAGAGTTCTTGGAATGACGCTAATCCAAAAA
TGTGATTTTCCCATTATGAAGTTTTCACTCTACTTCTTGGCTTATGAGGATAAAAATGAC
ATCCCTAAAGAAAAAGATGAAAAAATAGCCTGGGCGCTCTCCAGAAAAGCTACACTTGAG
CTGACACACAATTGGGGCACTGAAGATGATGAGACCCAGAGTTACCACAATGGCAATTCA
GACCCTCGAGGATTCGGTCATATTGGAATTGCTGTTCCTGATGTATACAGTGCTTGTAAA
AGGTTTGAAGAACTGGGAGTCAAATTTGTGAAGAAACCTGATGATGGTAAAATGAAAGGC
CTGGCATTTATTCAAGATCCTGATGGCTACTGGATTGAAATTTTGAATCCTAACAAAATG
GCAACCTTAATGTAG

Clone variation with respect to NM_006708.2

View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006708 unedited
GTAATACGACTCACTTATAGGGCGGCCGCGATTCGGCACGAGGGTCGTCTGTGATACTGC
AGCGCAGCCATGGCAGAACCGCAGCCCCCGTCCGGCGGCCTCACGGACGAGGCCGCCCTC
AGTTGCTGCTCCGACGCGGACCCCAGTACCAAGGATTTTCTATTGCAGCAGACCATGCTA
CGAGTGAAGGATCCTAAGAAGTCACTGGATTTTTATACTAGAGTTCTTGGAATGACGCTA
ATCCAAAAATGTGATTTTCCCATTATGAAGTTTTCACTCTACTTCTTGGCTTATGAGGAT
AAAAATGACATCCCTAAAGAAAAAGATGAAAAAATAGCCTGGGCGCTCTCCAGAAAAGCT
ACACTTGAGCTGACACACAATTGGGGCACTGAAGATGATGAGACCCAGAGTTACCACAAT
GGCAATTCAGACCCTCGAGGATTCGGTCATATTGGAATTGCTGTTCCTGATGTATACAGT
GCTTGTAAAAGGTTTGAAGAACTGGGAGTCAAATTTGTGAAGAAACCTGATGATGGTAAA
ATGAAAGGCCTGGCATTTATTCAAGATCCTGATGGCTACTGGATTGAAATTNTGAATCCT
AACAAAATGGCAACCTTAATGTAGTGCTGTGAGAATTCTCCTTTGAGATTTCAGAAGAAA
GGAAACAATGTGATTCAAGATATTTACATACCAGAAGCATCTAGGACTGATGGATCACTG
TCCCCGATCNATTATTCTTCAGTCCATTTCCCCTTCCTATNTCAGCTGTTCCTTTTCACC
TAACTGTTCAGTCATTCTGGTTTTCAAGCAGTGCTTTATCTCATGTCCTGAATATAGNTG
NNGTACTTTATTTTTTAGTAATAATANAACAGTTCCCTTCAGAGCTGCATTTGCCTCTTC
TGCCACTAAATATTNACTCCCTTCAATCTGCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006708 unedited
GGTTTTTCAGGGGNNCTNTNATNTATTCCAGTTCTCTCAAGCTATTGGCTATCTTGTCTT
AAAGCACTCACATAAATCCATTTCACCCAAAAAGGAAACATAAAGTGCTTCTAGCAGTAC
AAGCACGGTTGGCATGGCCTTTCCAAAGGTCTTCCACTAGAGTCTAGAGAAATCTAAATA
TAGTCATCCACAAACTGGATGTTTTTATTTTCTGAGCCATTAGAGATTTTCAAAATCACT
TTGATTTTTAAAAACTCATCAAATGTGAATCATGGCGGGGAAGACCACTGAGCTGATTTC
TGATAACTAAGTTATCACTGAACATAATTTATCATATATGGCTACTGGCATCATGAAGAC
CTTGGGATAGGGAAGACTCTTTATGAGAAATATAAACATCACTTGTGTAGGAATCACCAG
GTGTCCCTAGAGCAGTTTTGTACTAAAGACTTCTAGTGTTTACTNCCTCACCACGGGTAC
CTTCCCAACCNNNNNNNNNNNCNCCCCNNCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
NCCCCCCCCCCCCCCCCCCCCNCCCCCCCCCCCCCCCCCCCCCCCCCCCCNCCCCCCCC
CCCNCCCCCNNNCCCCCCCCCCCCNCCNCCCCCCCCCCCCCCCCCCCCCCCCCNCCC
CCACCCCCNCCNACCCCCCCCCCCCCCCCCNCCCCCCNCCCCCCCCCCCCCCCNCNCCC
CCCCCCCCNCCCCCCCCCCCCNCCCCCCNCCAACACACCCCCCCCCCCCCCACCCCCCC
CCCACCCCCCCCCCCACCCACCCCCCACACAACCCCCACCCCCACCCACCCCACCCCCCA
CACCCCCCCCACCCCCCCACACCACCCNCCCCCCCACNCCACCACCCCCCCACCACACC

Restriction Sites: NotI-NotI

ACCN: NM_006708

Insert Size: 2100 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).

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_006708.1, NP_006699.1
RefSeq Size:	1993 bp
RefSeq ORF:	555 bp
Locus ID:	2739
UniProt ID:	Q04760
Cytogenetics:	6p21.2
Domains:	Glyoxalase
Protein Pathways:	Pyruvate metabolism
Gene Summary:	The enzyme encoded by this gene is responsible for the catalysis and formation of S-lactoyl-glutathione from methylglyoxal condensation and reduced glutatione. Glyoxalase I is linked to HLA and is localized to 6p21.3-p21.1, between HLA and the centromere. [provided by RefSeq, Jul 2008]