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Product datasheet for SC203857

Glucose 6 phosphate isomerase (GPI) (NM_000175) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	Glucose 6 phosphate isomerase (GPI) (NM_000175) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	GPI
Synonyms:	AMF; GNPI; NLK; PGI; PHI; SA-36; SA36
ACCN:	NM_000175
Insert Size:	2000 bp

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Insert Sequence:

>SC203857 3'UTR clone of NM_000175
The sequence shown below is from the reference sequence of NM_000175. The complete sequence of this clone may contain minor differences, such as SNPs.
Blue=Stop Codon Red=Cloning site

GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
AAGCAGCAGCGCGAGGCCAGAGTCCAATAAACTCGTGCTCATCTGCAGCCTCCTCTGTGACTCCCCTTT
CTCTTCTCGTCCCTCCTCCCCGGAGCCGGCACTGCATGTTCCTGGACACCACCCAGAGCACCCTCTGGT
TGTGGGCTTGGACCACGAGCCCTTAGCAGGGAAGGCTGGTCTCCCCCAGCCTAACCCCCAGCCCCTCCA
TGTCTATGCTCCCTCTGTGTTAGAATTGGCTGAAGTGTTTTTGTGCAGCTGACTTTTCTGACCCATGTT
CACGTTGTTCACATCCCATGTAGAAAAATAAAGATGCCACGGAGGAGGTTGTAGGCTCAGCCTCTGATT
TTTTTTTTCCTGTGATGGTGCTTTATGTAGCAGAGGGCAGGAGCGCTCAGCAGGACGCAGGCTGTGCCT
CTGCGGACACTTAACACTAAGTGGTGAGCGGGTCTAGAGTGGAGCAAGGTGCCCTGAGAAGACAATAGT
GGGGTGGGGGCACAATCAGTCAGGACGGCAACTTGGCCTGTGTCACCAAATCCCAAGACTGTTTTCCAC
TCCTCACCTCTGTGACTGCAGAAATTGGATACTCTGTTCACTCGATGGTTCTAAAAACTGCATTGAGAT
TATGTTTGTTTCGGGTGAATTCCTGGACAAGACCGAGGATGACTGCCATCTCCTGGCAAGACGCTCAGG
TAGTTCTTTTGCTTTAAAAGGCAGATATTGAAAACTGGAATTTTTTTTTTTTTGAGTCTCGCTCTGTCAC
CCAGACTGGAGTGCAGTGGTGCAATCTCGGCTCACTGCAACCTCCGCCTCCCGGGTTCAAGCTATTCTC
CTGCCTCAGCCTCCCGAGTAGCTGGGATTACACGGCGCACACCACCATACCCAGCTAATTTTTGTATTT
TTAGTAGTGAAGGGGTTTTACCATGTTGGGCAGGCTGGTCTTGAACTCCTGACCTCAGGTGATCTGCCC
GCCTCAGCCTCCCACAGTGCTGGGATTACAGGTATGAGCCACCACGCCCGGCCCATTTTTTTTTTTTTT
TTGACAACTTTTTTTTTTTTTTGAGACAGGGTCTTGTTCCATTGCCCAGACTGGAGTGCAGTGGCATGA
TCACAGCTCACTGCAGCCAGTAATCCTCTTGCCTCAGCCTCCCAAGTAGTTGAGACTACAGGTTGTACC
ACTATGCCCTGCTAGTTTTTTCATTTTTTGTAGAGAGACGGGTCTTTTTTTTTTTTTGAGACGGAGTCTC
GCTCTGTCGCCCAAGCTGGAGTGCAGTAGCACGGTCTCAGCTCATTGCAAGCTCCGCCTCCCAGGTTCA
CGCCATTCTCCTGCCTCAGACTCCTGTGTAGCTGGGAGTACAGGCACCTGCCACCATGCCCGGCTAATT
TTTTATATATTTTTTTAGCAGAGACAGTGTCTCACTGTGTTAGTCAGGATGGTCTCGATCTCCTGACCT
CGTGATCCGCCCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCGCCCAGCAAGGC
GGGTCTTGCTGTGTTTCCCAGACTAGACTGGTCTTGAATTCCAGGGCTCAAGAGATCTCCCACCTCAGC
CTCCCACAGTGCTGGGATTACAGGCGTGAGCCGCCACACCCAGCCTATTCAAAATTTTTTTTCTTAGA
GACAGGGTCTTTGTTGCCCAGGCTGGACTGCAGTGATACAATCATAGCTGACTGAAGCCTCAAATTCCC
AGGCTAAGGTGATCTTCTCACCTCAGCCTTCCAAGTAGCTGGGTCCGCAGATGCATGCCAGTACACCCA
GCTCATTTAAAAAAAAATTTTTTTCTTTTTTGAGAGTCTTGCTTTGTTGCCCAGGCTGGAGTGCAGTGG
TGTGATCTCGGCTCACTGCAAGCTCCACCTCCCGGCTTCACGCCATTCTCCTGCCTCAGCCTCCCGAGT
AGCTGGGACTACAGGTGCCCGCCACCACACCCGGCTAATTTTTTGTATTTTTAGTAGAGACGGGGTTT
ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGG

Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: NM_000175.5

Summary: This gene encodes a member of the glucose phosphate isomerase protein family. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. In the cytoplasm, the gene product functions as a glycolytic enzyme (glucose-6-phosphate isomerase) that interconverts glucose-6-phosphate and fructose-6-phosphate. Extracellularly, the encoded protein (also referred to as neuroleukin) functions as a neurotrophic factor that promotes survival of skeletal motor neurons and sensory neurons, and as a lymphokine that induces immunoglobulin secretion. The encoded protein is also referred to as autocrine motility factor based on an additional function as a tumor-secreted cytokine and angiogenic factor. Defects in this gene are the cause of nonspherocytic hemolytic anemia and a severe enzyme deficiency can be associated with hydrops fetalis, immediate neonatal death and neurological impairment. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2016]

Locus ID: 2821

MW: 74.3