

Product datasheet for **MC218919**

Gpi1 (NM_008155) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gpi1 (NM_008155) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gpi1
Synonyms:	AM; Amf; Gpi; Gpi-; Gpi-1; Gpi-1r; Gpi-1s; Gpi-1t; Gpi1-r; Gpi1-s; Gpi1-t; Gpi1s; MF; N; neuro; NK; NK/; NK/GPI; Nlk; O; Org; Pgi; Phi
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC218919 representing NM_008155
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGCGCTCACCCGGAACCCGAGTTCAGAAGCTCCTGGAGTGGCACCCGCGGAACCTCTGCCAAC
 TCAAGCTGCGCGAACTTTTTGAGGCGGATCCGGAGCGCTTCAACAACCTCAGCTTGAACCTCAACACCAA
 CCATGGGCATATTCTGGTGGACTACTCCAAGAACCTTGTGAACAAGGAGGTGATGCAGATGCTGGTGGAG
 CTGGCCAAGTCCAGAGCGGTGGAGGCTGCACGGGACAACATGTTCAAGTGGTTCGAAGATCAACTACCCG
 AGAATCGGGCGGTGCTGCATGTGGCCCTTCGGAACCGGTCCAACACACCCATCAAGGTGGACGGCAAAGA
 TGTGATGCCGGAGGTGAACAGGGTCTGGACAAGATGAAGTCTTCTGCCAGCGGTCCGGAGTGGTGC
 TGGAAAGGTTACTGGCAAATCCATCACGGACATCATCAACATCGGCATCGGGGCTCTGACCTGGGAC
 CCCTCATGGTACTGAAGCTCTCAAGCCTTACTCGAAAGGAGTCCCGTGTCTGGTTTGTCTCTAACAT
 TGATGGGACCCACATTGCCAAAACACTGGCCAGCTTGTCCCTGAGACTCCCTCTTTATAATCGCTCC
 AAGACCTTCAACCCAGGAGACCATCACCAATGCAGAGACAGCAAAGGAGTGGTTTCTCGAAGCGGCCA
 AGGATCCATCTGCAGTTGCAAAGCACTTGTGCGCCTGTCTACGAACACGGCCAAAGTGAAGAGTTTGG
 AATTGACCCTCAAACATGTTTCGAGTCTGGGATTGGGTAGTGGCCGCTATTGCTGTGGTTCAGCCATT
 GGACTTTCATTGCTCTGCATGTAGTTTTGACCATTGAGCAGCTGCTGTCCGGGCTCACTGGATGG
 ACCAGCACTTCTCAAGACGCCCTGGAGAAGAATGCCCCGCTCTGCTGGCTCTACTGGGCATCTGGTA
 CATCAACTGCTACGGCTGTGAGACCCACGCCTTGTGTCCTATGACCAGTACATGCACCGCTTTGCTGCC
 TATTTCCAGCAGGGTGACATGGAGTCCAACGGAAAGTACATCACCAAGTCCGGGGCCCGTGGACCACC
 AGACAGGCCCCATCGTGTGGGGGAACCCAGGACCAATGGTCAACATGCATTCTACCAGTCATCCACCA
 AGGCACCAAGATGATACCTGTGACTTTCTCATCCCTGTCCAGACCCAGCACCCATACGGAAAGGTCTG
 CATCACAAGATCCTCCTGGCTAACTTCTGGCCAGACTGAGGCCTGATGAAGGGGAAGTTGCCTGAAG
 AGGCCAGGAAGGAGTCCAGGCTGCCGAAAGAGCCAGAAGACTGGAGAACTCTTGCCACACAAGGT
 CTTTGAAGGAAACCGCCGACCAACTCTATTGTGTTTACCAAGCTGACACCCTTCTATTCTGGGGCCTTG
 ATTGCCATGTATGAGCACAAGATCTTTGTTTCCAGGGCATCATGTGGGACATCAACAGCTTCGACCAGTGGG
 GAGTGGAGCTGGGAAGCAGCTGGCCAAGAAAATTGAGCCGGAGCTGGAGGCAGCTCTGCTGTGACCTC
 CCATGATTCCTCCACTAACGGACTGATCAGCTTATCAAGCAACAGCGGGACACCAAAGTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_008155
- Insert Size:** 1677 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_008155.4](#), [NP_032181.2](#)

RefSeq Size: 2887 bp

RefSeq ORF: 1677 bp

Locus ID: 14751

UniProt ID: [P06745](#)

Cytogenetics: 7 19.46 cM

Gene 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. [provided by RefSeq, Aug 2016]