

## Recombinant Human GFI1 protein, His-tagged

Cat. No. GFI1-186H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human GFI1, transcript variant 2, fused with His tag at N-terminal was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | This gene encodes a nuclear zinc finger protein that functions as a transcriptional repressor. This protein plays a role in diverse developmental contexts, including hematopoiesis and oncogenesis. It functions as part of a complex along with other cofactors to control histone modifications that lead to silencing of the target gene promoters. Mutations in this gene cause autosomal dominant severe congenital neutropenia, and also dominant nonimmune chronic idiopathic neutropenia of adults, which are heterogeneous hematopoietic disorders that cause predispositions to leukemias and infections. Multiple alternatively spliced variants, encoding the same protein, have been identified for this gene. |
| <b>Form</b>             | 25mM Tris, pH8.0, 150 mM NaCl, 10% glycerol, 1 % Sarkosyl.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Molecular Mass</b>   | 45.1 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Concentration</b>    | >50 ug/mL as determined by microplate BCA method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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## GENE INFORMATION

|                            |                                                                                                                                                                                                                                                        |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | GFI1 growth factor independent 1 transcription repressor [ Homo sapiens ]                                                                                                                                                                              |
| <b>Official Symbol</b>     | GFI1                                                                                                                                                                                                                                                   |
| <b>Synonyms</b>            | GFI1; growth factor independent 1 transcription repressor; growth factor independent 1 , ZNF163; zinc finger protein Gfi-1; zinc finger protein 163; growth factor independence-1; growth factor independent protein 1; SCN2; GFI-1; ZNF163; FLJ94509; |
| <b>Gene ID</b>             | 2672                                                                                                                                                                                                                                                   |
| <b>mRNA Refseq</b>         | NM_001127215                                                                                                                                                                                                                                           |
| <b>Protein Refseq</b>      | NP_001120687                                                                                                                                                                                                                                           |
| <b>MIM</b>                 | 600871                                                                                                                                                                                                                                                 |
| <b>UniProt ID</b>          | Q99684                                                                                                                                                                                                                                                 |
| <b>Chromosome Location</b> | 1p22                                                                                                                                                                                                                                                   |
| <b>Pathway</b>             | Validated targets of C-MYC transcriptional repression, organism-specific biosystem;                                                                                                                                                                    |
| <b>Function</b>            | DNA binding; metal ion binding; protein binding; transcription regulatory region DNA binding; zinc ion binding;                                                                                                                                        |

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