

# Recombinant Human CYB5R1 Protein, GST-tagged

**Cat. No.** CYB5R1-2215H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human CYB5R1 full-length ORF ( NP_057327.2, 1 a.a. - 305 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | CYB5R1 (Cytochrome B5 Reductase 1) is a Protein Coding gene. Among its related pathways are Response to elevated platelet cytosolic Ca <sup>2+</sup> and Erythrocytes take up carbon dioxide and release oxygen. GO annotations related to this gene include oxidoreductase activity and cytochrome-b5 reductase activity, acting on NAD(P)H. An important paralog of this gene is CYB5R3. |
| <b>Molecular Mass</b>   | 60.5 kDa                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | MGIQTSPVLLASLGVGLVTLLGLAVGSYLVRRSRPQVTLLDPNEKYLLRLLDKTTVS<br>HNTKRFRFALPTAHHTLGLPVGKHIYLSTRIDGSLVIRPYTPVTSDEDQGYVDLVIKVV<br>LKGVHPKFPEGGKMSQYLDLKVGDVVEFRGPSGLLTGTGKGHFNIQPNKKSPPEP<br>RVAKKLGMIAGGTGITPMLQLIRAILKVPEDPTQCFLLFANQTEKDIIREDLEELQAR<br>YPNRFLWFTLDHPPKDWAYSKGFVTADMIREHLPAPGDDVLVLLCGPPPMVQLAC<br>HPNLDKLGYSQKMRFTY                                                          |
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay<br>Western Blot (Recombinant protein)<br>Antibody Production                                                                                                                                                                                                                                                                                           |

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### Protein Array

|                       |                                                                          |
|-----------------------|--------------------------------------------------------------------------|
| <b>Notes</b>          | Best use within three months from the date of receipt of this protein.   |
| <b>Storage</b>        | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing. |
| <b>Storage Buffer</b> | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer. |

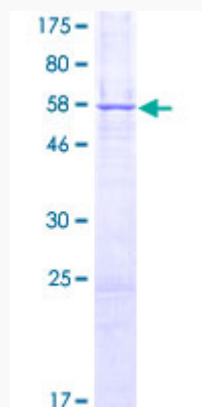
## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                               |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | CYB5R1 cytochrome b5 reductase 1 [ Homo sapiens ]                                                                                                                                                                                                                             |
| <b>Official Symbol</b> | CYB5R1                                                                                                                                                                                                                                                                        |
| <b>Synonyms</b>        | CYB5R1; cytochrome b5 reductase 1; NAD(P)H:quinone oxidoreductase type 3, polypeptide A2 , NQO3A2; NADH-cytochrome b5 reductase 1; humb5R2; NAD(P)H:quinone oxidoreductase type 3 polypeptide A2; NAD(P)H:quinone oxidoreductase type 3, polypeptide A2; B5R1; B5R.1; NQO3A2; |
| <b>Gene ID</b>         | 51706                                                                                                                                                                                                                                                                         |
| <b>mRNA Refseq</b>     | NM_016243                                                                                                                                                                                                                                                                     |
| <b>Protein Refseq</b>  | NP_057327                                                                                                                                                                                                                                                                     |
| <b>MIM</b>             | 608341                                                                                                                                                                                                                                                                        |
| <b>UniProt ID</b>      | Q9UHQ9                                                                                                                                                                                                                                                                        |

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**Quality Control****Testing:**

12.5% SDS-PAGE Stained with Coomassie Blue.

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