

## Recombinant Human GPER1 protein, GST-tagged

**Cat. No.** GPER1-12H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human GPER1(1 a.a. - 375 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | 1-375 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | This gene is a member of the G-protein coupled receptor 1 family and encodes a multi-pass membrane protein that localizes to the endoplasmic reticulum. The protein binds estrogen, resulting in intracellular calcium mobilization and synthesis of phosphatidylinositol 3,4,5-trisphosphate in the nucleus. This protein therefore plays a role in the rapid nongenomic signaling events widely observed following stimulation of cells and tissues with estrogen. Alternate transcriptional splice variants which encode the same protein have been characterized. |
| <b>Form</b>             | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Molecular Mass</b>   | 68.6 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>AA Sequence</b>      | MDVTSQARGVGLEMYPGTAQPAAPNTTSPELNLSHPLLGTALANGTGELSEHQQY<br>VIGLFLSCLYTIFLFPIGFVGNILILVWNISFREKMTIPDLYFINLAVADLILVADSLIEVFNL<br>HERYYDIAVLCTFMSLFLQVNMYSSVFFLTWMSFDRIYALARAMRCSLFRTKHHARL<br>SCGLIWMASVSATLVPFTAVHLQHTDEACFCFADVREVQWLEVTLGFIVPFAIIGLCY                                                                                                                                                                                                                                                                                                                |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

SLIVRVLVRAHRHRGLRPRRQKALRMILAVVLVFFVCWLPENVFISVHLLQRTQPGA  
APCKQSFRHAHPLTGHIVNLAAFSNSCLNPLIYSFLGETFRDKLRLYIEQKTNLPALN  
RFCHAALKAVIPDSTEQSDVRFSSAV

**Applications**

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);  
Antibody Production; Protein Array

**Notes**

Best use within three months from the date of receipt of this protein.

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

## GENE INFORMATION

**Gene Name**

GPER1 G protein-coupled estrogen receptor 1 [ Homo sapiens ]

**Official Symbol**

GPER1

**Synonyms**

mER; CEPR; GPER; DRY12; FEG-1; GPR30; LERGU; LyGPR; CMKRL2; LERGU2;  
GPCR-Br; G protein-coupled receptor 30; IL8-related receptor DRY12;  
chemoattractant receptor-like 2; chemokine receptor-like 2; constitutively expressed  
peptide-like receptor; flow-induced endothelial G-protein coupled receptor 1;  
heptahelix receptor; leucine rich protein in GPR30 3'UTR; lymphocyte-derived G-  
protein coupled receptor; membrane estrogen receptor

**Gene ID**

2852

**mRNA Refseq**

NM\_001505

**Protein Refseq**

NP\_001496

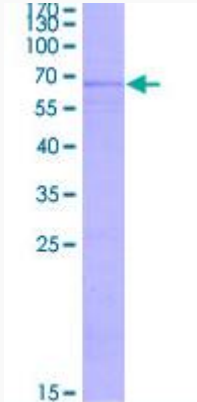
**MIM**

601805

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                                                                                     |                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UniProt ID</b>                                                                   | Q99527                                                                                                                                                                                 |
| <b>Chromosome Location</b>                                                          | 7p22.3                                                                                                                                                                                 |
| <b>Pathway</b>                                                                      | Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; Estrogen signaling pathway, organism-specific biosystem; G alpha (i) signalling events, organism-specific biosystem |
| <b>Function</b>                                                                     | G-protein coupled receptor activity; mineralocorticoid receptor activity; protein binding                                                                                              |
|  |                                                                                                                                                                                        |