

## Product datasheet for PH300118

### RAI3 (GPCR5A) (NM\_003979) Human Mass Spec Standard

#### Product data:

|                                       |   |
|---------------------------------------|---|
| Product Type:                         | Mass Spec Standards   |
| Description:                          | GPCR5A MS Standard C13 and N15-labeled recombinant protein (NP_003970)  |
| Species:                              | Human   |
| Expression Host:                      | HEK293  |
| Expression cDNA Clone or AA Sequence: | RC200118  |
| Predicted MW:                         | 40.3 kDa  |
| Protein Sequence:                     | >RC200118 protein sequence<br>Red=Cloning site Green=Tags(s)<br><br>MATTVPDGCNRNGLKSKYYRLCDKAEAWGIVLETVATAGVVTSVAFMLTLPILVCKVQDSNRRKMLPTQFL<br>FLLGVLGIFGLTFAFIIGLDGSTGPTFRFFLFGILFSICFSCLLAHAVSLTKLVRGRKPLSLLVILGLAVG<br>FSLVQDVIAIEYIVLTMNRTNVNVFSELSAPRRNEFVLLTYVLFMLALTFLMSSFTFCGSFTGWKRHG<br>AHIYLTMLLSIAIWWAWITLLMLPDFDRRWDDTILSSALAANGWVFLAYVSPEFWLLTKQRNPMDDYPVE<br>DAFCKPQLVKKSYGVENRAYSQEEITQGFEEETGDTLYAPYSTHFQLQNQPPQKEFSIPRAHAWPSPYKDY<br>EVKKEGS<br><br>TRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| Tag:                                  | C-Myc/DDK   |
| Purity:                               | > 80% as determined by SDS-PAGE and Coomassie blue staining   |
| Concentration:                        | >0.05 µg/µL as determined by microplate BCA method  |
| Labeling Method:                      | Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine  |
| Buffer:                               | 25 mM Tris-HCl, 100 mM glycine, pH 7.3  |
| Storage:                              | Store at -80°C. Avoid repeated freeze-thaw cycles.  |
| Stability:                            | Stable for 3 months from receipt of products under proper storage and handling conditions.  |
| RefSeq:                               | <u>NP_003970</u>  |
| RefSeq Size:                          | 2856  |
| RefSeq ORF:                           | 1071  |
| Synonyms:                             | GPCR5A; PEIG-1; RAI3; RAIG1; TIG1   |
| Locus ID:                             | 9052  |



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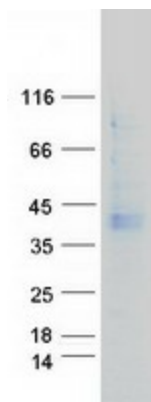
UniProt ID: [Q8NFJ5](#)

Cytogenetics: 12p13.1

**Summary:** This gene encodes a member of the type 3 G protein-coupling receptor family, characterized by the signature 7-transmembrane domain motif. The encoded protein may be involved in interaction between retinoid acid and G protein signalling pathways. Retinoic acid plays a critical role in development, cellular growth, and differentiation. This gene may play a role in embryonic development and epithelial cell differentiation. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome, GPCR, Transmembrane

### Product images:



Coomassie blue staining of purified GPCR5A protein (Cat# [TP300118]). The protein was produced from HEK293T cells transfected with GPCR5A cDNA clone (Cat# [RC200118]) using MegaTran 2.0 (Cat# [TT210002]).