**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for PH300315

## GPR56 (ADGRG1) (NM_005682) Human Mass Spec Standard

### Product data:

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|---|---|
| **Product Type:** | Mass Spec Standards |
| **Description:** | GPR56 MS Standard C13 and N15-labeled recombinant protein (NP_005673) |
| **Species:** | Human |
| **Expression Host:** | HEK293 |
| **Expression cDNA Clone or AA Sequence:** | RC200315 |
| **Predicted MW:** | 77.7 kDa |
| **Protein Sequence:** | >RC200315 protein sequence<br>Red=Cloning site Green=Tags(s)<br><br>MTPQSLLQTTLFLLSLLFLVQGAHGRGHREDFRFCSQRNQTHRSSLHYKPTPDLRISIENSEEALTVHAP<br>FPAAHPASRSFPDPRGLYHFCLYWNRHAGRLHLLYGKRDFLLSDKASSLLCFQHQEESLAQGPPLLATSV<br>TSWWSPQNISLPSAASFTFSFHSPPHTAAHNASVDMCELKRDLQLLSQFLKHPQKASRRPSAAPASQQLQ<br>SLESKLTSVRFMGDMVSFEEDRINATVWKLQPTAGLQDLHIHSRQEEEQSEIMEYSVLLPRTLFQRTKGR<br>SGEAEKRLLLVDFSSQALFQDKNSSHVLGEKVLGIVVQNTKVANLTEPVVLTFQHQLQPKNVTLQCVFWV<br>EDPTLSSPGHWSSAGCETVRRETQTSCFCNHLTYFAVLMVSSVEVDAVHKHYLSLLSYVGCVVSALACLV<br>TIAAYLCSRVPLPCRRKPRDYTIKVHMNLLLAVFLLDTSFLLSEPVALTGSEAGCRASAIFLHFSLLTCL<br>SWMGLEGYNLYRLVVEVFGTYVPGYLLKLSAMGWGFPIFLVTLVALVDVDNYGPIILAVHRTPEGVIYPS<br>MCWIRDSLVSYITNLGLFSLVFLFNMAMLATMVVQILRLRPHTQKWSHVLTLLGLSLVLGLPWALIFFSF<br>ASGTFQLVVLYLFSIITSFQGFLIFIWYWSMRLQARGGPSPLKSNSDSARLPISSGSTSSSRI<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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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:** | NP_005673 |
| **RefSeq Size:** | 3831 |

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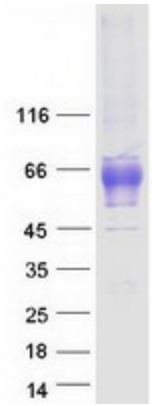
|---|---|
| **RefSeq ORF:** | 2079 |
| **Synonyms:** | BFPP; BPPR; GPR56; TM7LN4; TM7XN1 |
| **Locus ID:** | 9289 |
| **UniProt ID:** | Q9Y653, A0A024R6U7 |
| **Cytogenetics:** | 16q21 |
| **Summary:** | This gene encodes a member of the G protein-coupled receptor family and regulates brain cortical patterning. The encoded protein binds specifically to transglutaminase 2, a component of tissue and tumor stroma implicated as an inhibitor of tumor progression. Mutations in this gene are associated with a brain malformation known as bilateral frontoparietal polymicrogyria. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2014] |
| **Protein Families:** | Druggable Genome, GPCR, Transmembrane |

## Product images:




Coomassie blue staining of purified ADGRG1 protein (Cat# [TP300315]). The protein was produced from HEK293T cells transfected with ADGRG1 cDNA clone (Cat# [RC200315]) using MegaTran 2.0 (Cat# [TT210002]).