

Product datasheet for **RC215351L1V**

ACTH (POMC) (NM_001035256) Human Tagged ORF Clone Lentiviral Particle

Product data:

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|---------------------------|--|
| Product Type: | Lentiviral Particles |
| Product Name: | ACTH (POMC) (NM_001035256) Human Tagged ORF Clone Lentiviral Particle |
| Symbol: | ACTH |
| Synonyms: | ACTH; CLIP; LPH; MSH; NPP; OBAIRH; POC |
| Mammalian Cell Selection: | None |
| Vector: | pLenti-C-Myc-DDK (PS100064) |
| Tag: | Myc-DDK |
| ACCN: | NM_001035256 |
| ORF Size: | 801 bp |
| ORF Nucleotide Sequence: | The ORF insert of this clone is exactly the same as(RC215351). |
| OTI Disclaimer: | The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info |
| OTI Annotation: | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene. |
| RefSeq: | NM_001035256.1 |
| RefSeq Size: | 1295 bp |
| RefSeq ORF: | 804 bp |
| Locus ID: | 5443 |
| UniProt ID: | P01189 |
| Cytogenetics: | 2p23.3 |
| Protein Families: | Druggable Genome |
| Protein Pathways: | Adipocytokine signaling pathway, Melanogenesis |



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MW: 29.4 kDa

Gene Summary: This gene encodes a preproprotein that undergoes extensive, tissue-specific, post-translational processing via cleavage by subtilisin-like enzymes known as prohormone convertases. There are eight potential cleavage sites within the preproprotein and, depending on tissue type and the available convertases, processing may yield as many as ten biologically active peptides involved in diverse cellular functions. The encoded protein is synthesized mainly in corticotroph cells of the anterior pituitary where four cleavage sites are used; adrenocorticotrophin, essential for normal steroidogenesis and the maintenance of normal adrenal weight, and lipotropin beta are the major end products. In other tissues, including the hypothalamus, placenta, and epithelium, all cleavage sites may be used, giving rise to peptides with roles in pain and energy homeostasis, melanocyte stimulation, and immune modulation. These include several distinct melanotropins, lipotropins, and endorphins that are contained within the adrenocorticotrophin and beta-lipotropin peptides. The antimicrobial melanotropin alpha peptide exhibits antibacterial and antifungal activity. Mutations in this gene have been associated with early onset obesity, adrenal insufficiency, and red hair pigmentation. Alternatively spliced transcript variants encoding the same protein have been described. [provided by RefSeq, Jan 2016]