

## Product datasheet for **AR09344PU-L**

### OAT (33-439) Human Protein

#### Product data:

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type:                         | Recombinant Proteins                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Description:                          | OAT (33-439) human recombinant protein, 0.5 mg                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Species:                              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Expression Host:                      | E. coli                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Expression cDNA Clone or AA Sequence: | MTVQGPPTSD DIFEREYKYG AHNYHPLPVA LERGGKIYLW DVEGRKYFDF LSSYSAVNQG HCHPKIVNAL KSQVDKLTLT SRAFYNVNLG EYEEYITKLF NYHKVLPMT GVEAGETACK LARKWGYTVK GIQKYKAKIV FAAGNFWGRT LSAISSSTDP TSYDGFPGPFM PGFDIIPYND LPALERALQD PNVAAFMVPEP IQGEAGVVVP DPGYLMGVRE LCTRHQVLF I ADEIQTGLAR TGRWLAVDYE NVRPDIVLLG KALSGGLYPV SAVLCDDDIM LTIKPGEHGS TYGGNPLGCR VAIAALEVLE EENLAENADK LGIILRNELM KLPSDVVTAV RGKGLLNAIV IKETKDWDAW KVCLRLRDNG LLAKPETHGDI IRFAPPLVIK EDELRESIEI INKTILSF |
| Predicted MW:                         | 45.2 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Concentration:                        | lot specific                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Purity:                               | >90% by SDS - PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Buffer:                               | Presentation State: Purified<br>State: Liquid purified protein<br>Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol                                                                                                                                                                                                                                                                                                                             |
| Preparation:                          | Liquid purified protein                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Protein Description:                  | Recombinant OAT protein was expressed in E.coli and purified by using conventional chromatography techniques.                                                                                                                                                                                                                                                                                                                                                       |
| Storage:                              | Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.                                                                                                                                                                                                                                                                                                                                    |
| Stability:                            | Shelf life: one year from despatch.                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| RefSeq:                               | <a href="#">NP_000265</a>                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Locus ID:                             | 4942                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| UniProt ID:                           | <a href="#">P04181</a> , <a href="#">A0A140VJQ4</a>                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Cytogenetics:                         | 10q26.13                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Synonyms:                             | GACR; HOGA; OATASE; OKT                                                                                                                                                                                                                                                                                                                                                                                                                                             |



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**Summary:**

This gene encodes the mitochondrial enzyme ornithine aminotransferase, which is a key enzyme in the pathway that converts arginine and ornithine into the major excitatory and inhibitory neurotransmitters glutamate and GABA. Mutations that result in a deficiency of this enzyme cause the autosomal recessive eye disease Gyrate Atrophy. Alternatively spliced transcript variants encoding different isoforms have been described. Related pseudogenes have been defined on the X chromosome. [provided by RefSeq, Jan 2010]

**Protein Families:**

Druggable Genome

**Protein Pathways:**

Arginine and proline metabolism, Metabolic pathways

**Product images:**