

Product datasheet for **SC322198**

ornithine aminotransferase (OAT) (NM_000274) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ornithine aminotransferase (OAT) (NM_000274) Human Untagged Clone
Tag:	Tag Free
Symbol:	ornithine aminotransferase
Synonyms:	GACR; HOGA; OATASE; OKT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for SC322198
 GCGTGTACCCGGTTGTCCTCAGGCGCTGTCAGATCTGTGGTTTTTCTACTTGAAGGACAC
 AATGTTTTCCAACTAGCACATTTGAGAGGTTTGTGTACTTAGTCGCGGAGTTCATTC
 TTCAGTGGCTTCTGCTACATCTGTTGCAACTAAAAACAGTCCAAGGCCTCCAACCTC
 TGATGACATTTTTGAAAGGGAATATAAGTATGGTGCACACAACCTACCATCCTTTACCTGT
 AGCCCTGGAGAGAGGAAAAGGTATTTACTTATGGGATGTAGAAGGCAGAAAATATTTTGA
 CTTCTGAGTTCTTACAGTGTCTCAACCAAGGGCATTGTCACCCCAAGATTGTGAATGC
 TCTGAAGAGTCAAGTGGACAAATTGACCTTAACATCTAGAGCTTTCTATAATAACGTA
 TGGTGAATATGAGGAGTATATTACTAACTTTTCAACTACCACAAAGTTCTTCTATGAA
 TACAGGAGTGGAGGCTGGAGAGACTGCCTGTAACCTAGCTCGTAAAGTGGGGCTATACCGT
 GAAGGGCATTAGAAAATACAAAGCAAAGATTGTTTTTGCAGCTGGGAACCTCTGGGGTAG
 GACGTTGTCTGCTATCTCCAGTTCACAGACCCAACCAGTTACGATGGTTTTGGACCATT
 TATGCCGGGATTCGACATCATTCCCTATAATGATCTGCCCGCACTGGAGCGTGTCTTCA
 GGATCCAATGTGGCTGCGTTCATGGTAGAACCAATTCAGGGTGAAGCAGGCGTTGTTGT
 TCCGGATCCAGGTTACCTAATGGGAGTGGAGAGCTCTGCACCAGGCACCAGGTTCTCTT
 TATTGCTGATGAAATACAGACAGGATTGCCAGAAGCTGGTAGATGGCTGGCTGTTGATTA
 TGAAAATGTCAGACCTGATATAGTCTCCTTGGAAAGGCCTTTCTGGGGCTTATACCC
 TGTGTCTGCAGTGTGTGATGATGACATCATGCTGACCATTAAGCCAGGGGAGCATGG
 GTCCACATACGGTGGCAATCCACTAGGCTGCCGAGTGGCCATCGCAGCCCTTGAGGTTTT
 AGAAGAAGAAAACCTTGTGAAAATGCAGACAAATTGGGCATTATCTTGAGAAAATGAACT
 CATGAAGTACCTTCTGATGTTGTAACCTGCCGTAAGAGGAAAAGGATTATTAATGCTAT
 TGTCATTAAGAAAACCAAGATTGGGATGCTTGGAAAGGTGTGTCTACGACTTCGAGATAA
 TGGACTTCTGGCCAAGCCAACCCATGGCGACATTATCAGGTTTGGCCTCCGCTGGTGAT
 CAAGGAGGATGAGCTTCGAGAGTCCATTGAAATTATTAACAAGACCATCTTGTCTTTCTG
 AGGGTAGCCAGCTGTTTTAGTGGTCCCTGGGAGCCAGCTGGAGACAGGTGGTCTCTGTA
 AAGCTTTATTCCTAATGTGGGCACATTCCACTCCCATGAGTCTTCAAAACTTTTTTTTT
 GAATATATTTTTTTCAGTTGATACATAATAGAACAACGTTTATGAACCTGCCGTTTGCTT
 TGTAACGTAACATAAATGTAATGGCATCTATATTCAGTTGAAGTGTGTTTGTGATGTCAT
 GTGTACTTCTAAGGTGAAATGCATCTATATACAGACAGCCTCTAAATCAAGTCTTTCAG
 TATAATTGATATATGTTTTATAATTTCTCACTGGTATAAGTGTTCATATTTGAAAAA
 GTTATCTCTGGGATTGCATAAAAGGCTTCATCTATAAAGTGAATCATTGTTATTGAA
 TTTTAGGAAGGATTAATGGTAAAGTGTATATAAATACTAATATTAAGTAAACTTCATAT
 TGGCCAACACCAGGGTGTATTCTATGGATGTCATTATTTGAATTAAGAATTAGTGT
 AACATTCCTAAATTGTTTTGAGTGTGATTATAATTTGTAATAAATGTTATTTTCAAT
 ACTTCTTTAAATTTAAAAATAAGCTTATATTTCAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_000274

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM_000274.1</u> , <u>NP_000265.1</u>
RefSeq Size:	2013 bp
RefSeq ORF:	1320 bp
Locus ID:	4942
UniProt ID:	<u>P04181</u>
Cytogenetics:	10q26.13
Domains:	aminotran_3
Protein Families:	Druggable Genome
Protein Pathways:	Arginine and proline metabolism, Metabolic pathways
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>