

Product datasheet for RN211517

Oat (NM_022521) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Oat (NM_022521) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Oat
Synonyms:	rOAT
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN211517 representing NM_022521 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGCTTCCAACTAGCAAGTCTGCAGACTGTTGCCGCTCTGCGTCGAGGACTCCGCACCTCAGTCGCCT
CTGCCACATCTGTTGCAACGAAGAAGACAGAGCAAGGCCACCATCCTCTGAGTACATTTTGAACGGGA
ATCTAAATATGGTGCACACAATTACCATCCTTTACCTGTAGCCCTGGAGAGAGGAAAAGGCATTTATATG
TGGGATGTGGAAGGCAGGCAGTACTTCGACTTCCTGAGTGCTTATGGTGTGTCAGCCAAGGACACTGCC
ACCCAAAGATCATAGAAGCCATGAAGAGTCAGGTGGACAAGCTGACATTAACATCTCGGGCTTTCTATAA
CAATGTCCTTGGTGAATATGAGGAGTACATCACCAAGCTTTTCAACTACAACAAAGTTCTTCTATGAAT
ACAGGAGTGGAGGCCGGAGAGACTGCGTGAAGCTTGCTCGCCGTTGGGGCTACACCGTGAAGGCATCC
AGAAATACAAAGCAAAGATCGTTTTTGTGTTGGAAACTTTTGGGGTCCGACGCTGTCTGCAGTCTCCAG
TTCCACAGATCCGACCAGTTATGATGGCTTTGGACCCTTCATGCCAGGCTTTGAAACCATCCCATATAAC
GATCTGCCTGCGCTAGAGCGTGCTTTCAGGATCCCAATGTTGCTGCTTTCATGGTGGAGCCCATCCAGG
GTGAAGCGGGTGTATCGTTCAGATCCAGGATACCTGACGGGAGTTCGAGAACTTTGCACCCGGCACCA
GGTCCTGTTTATTGCTGATGAAATACAGACAGGATTGGCTAGAAGTGGTGCATGGCTAGCTGTGGATCAT
GAGAATGTCAGACCTGACATAGTCTTCTTGGGAAGGCCCTTTCTGGTGGCTTATATCCCGTGTCTGCAG
TGCTGTGTGATGACATAATGCTGACCATTAACCAGGCGAGCACGGCTCCACGTATGGCGGCAACCC
ACTAGGCTGCCGAATTGCTATTGCGGCTCTTGAGGTTTTAGAAGAAGAGCATCTTCTGAAAACGCAGAC
AAGATGGGTGCCATCTTGAGAAAGGAGCTCATGAAGCTGCCATCTGATGTTGTGACTGCTGTGAGAGGGA
AAGGGTTGCTAAATGCCATCGTCATCCGAGAAACCAAGATTGTGACGCTTGAAGGTGTGCTGCGACT
CCGAGATAATGGGCTTCTGGCCAAGCCAACCCATGGTATATCATCCGGCTTGGCCCTCCACTTGTGATC
AAAGAGGATGAGATCCGGGAGTCAGTGGAGATCATCAACAAGACCATCTGTCTCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Restriction Sites:	Sgfl-Mlul
ACCN:	NM_022521
Insert Size:	1320 bp
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).
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_022521.3</u> , <u>NP_071966.1</u>
RefSeq Size:	2178 bp
RefSeq ORF:	1320 bp
Locus ID:	64313
UniProt ID:	<u>P04182</u>
Cytogenetics:	1q41
Gene Summary:	catalyzes the transamination of ornithine and alpha-ketoglutarate to form glutamic gamma-semialdehyde and glutamate [RGD, Feb 2006]