

Product datasheet for **MG218472**

Oat (NM_016978) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Oat (NM_016978) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Oat
Synonyms:	A1194874; rhg
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG218472 representing NM_016978 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTTTCTAACTAGCAAGTCTGCAGACCATTGCTGCTCTGCGCCGAGGAGTCCACACCTCAGTCGCCT
CTGCCACGTCTGTTGCCACAAAGAAGACAGAGCAAGGCCACCATCCTCCGAGTACATTTTTGAACGGGA
ATCTAAATATGGTGCACACAATTACCATCCTTTGCCTGTAGCCCTGGAGAGAGGAAAAGGCATTTATATG
TGGGATGTGGAAGGCAGGCAGTACTTCGATTTCTGAGTGCTTATGGTGTCTCAGCCAAGGACACTGCC
ACCCAAAGATCATAGATGCCATGAAGAGTCAGGTGGACAAGCTGACATTAACATCTCGGGCTTTCTATAA
CAATGTCCTTGGTGAATACGAGGAGTACATCACCAAGCTTTTCAACTACAACAAAGTTCTCCCTATGAAT
ACAGGAGTGGAGGCTGGAGAGACTGCATGTAAGCTCGCTCGTTCGTTGGGGCTACACCGTGAAGGCATCC
AGAAATACAAAGCAAAGATTGTTTTGCTGATGGGAACTTTTGGGGTCGAACACTATCTGCAATCTCCAG
TTCCACAGATCCGACCAGTTATGATGGCTTTGGACCTTCATGCCAGGCTTTGAAACCATCCCATATAAC
GATCTGCCCGCACTGGAGCGTCTTCCAGGATCCAAATGTTGCTGCCTTCATGGTGGAGCCCATCCAGG
GTGAAGCAGGCGTTATCGTTCGGATCCAGGATACCTGACAGGAGTTCGGGAACCTGCACCAGGCACCA
GGTCTGTTTATTGCTGATGAAATACAGACAGGATTGGCCAGAAGTGGTATGAGTGGCTGGCTGTGGATCAT
GAGAATGTCAGACCTGATATGGTTCTTCTGGGAAGGCCCTTTCTGGCGGTTTATACCTGTGTCTGCAG
TGCTGTGTGACGATGAGATAATGCTGACCATTAACCAGGCGAGCACGGCTCCACATACGGCGGAAACCC
ACTAGGCTGCCGAATTGCCATTGCGGCTCTTGAGGTTTTAGAAGAGGAGAATCTTGCTGAGAATGCAGAC
AAGATGGGCGCTATCCTGAGGAAGGAGCTCATGAAGCTGCCCTCTGACGTTGTGACCTCAGTGAGAGGGA
AAGGGTTGCTAAATGCCATTGTTCATCAGAGAAACCAAAGACTGTGATGCTTGAAGGTGTGCTGCGACT
TCGAGATAACGGGCTTCTGGCCAAGCCAACCCACGGTGATATCATCAGGCTTGCCCTCCCTTGTGATC
AAGGAGGATGAGATCCGGGAGTCCGTGGAGATCATCAACAAGACTATCTTGCCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online >](#)

Protein Sequence: >MG218472 representing NM_016978
 Red=Cloning site Green=Tags(s)

MLSKLASLQTI AALRRGVHTSVASATSVATKKTEQGPPSSEYIFERESKYGAHNYHPLPVALERKGIYM
 WDVEGRQYDFLSAYGAVSQGHCHPKIIDAMKSQVDKLTLSRAFYNNVLGEYEEYITKLFNYNKVLPMN
 TGVEAGETACKLARRWGYTVKGIQKYKAKIVFADGNFWGRTL SAISSSTDPTSYDGF GPFMPGFETIPYN
 DLPALERALQDPNVA AFMVEPIQGEAGVIVDPGYLTGVRELCTR HQVLFIADEIQTGLARTGRWLAVDH
 ENVRPDMVLLGKALSGGLYPVSAVLCDD EIMLTIKPGEHGSTYGGNPLGCRIAIAALEVLEEENLAENAD
 KMGAILRKELMKLP SDVVTSVRGKGLLNAIVIRETKDCDAWKVCLRLRDNGLLAKPTHGDIIRLAPPLVI
 KEDEIRESVEIINKTILSF

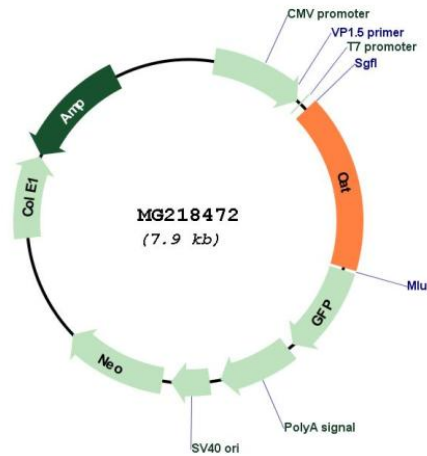
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_016978

ORF Size:	1317 bp
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.
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:	NM_016978.2 , NP_058674.1
RefSeq Size:	2155 bp
RefSeq ORF:	1320 bp
Locus ID:	18242
UniProt ID:	P29758
Cytogenetics:	7 76.3 cM