

Product datasheet for **MR218472**

Oat (NM_016978) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Oat (NM_016978) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Oat
Synonyms:	A1194874; rhg
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR218472 representing NM_016978
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTTTCTAAACTAGCAAGTCTGCAGACCATTGCTGCTCTGCGCCGAGGAGTCCACACCTCAGTCGCCT
 CTGCCACGTCTGTTGCCACAAAGAAGACAGAGCAAGGCCACCATCCTCCGAGTACATTTTTGAACGGGA
 ATCTAAATATGGTGCACACAATTACCATCCTTTGCCTGTAGCCCTGGAGAGAGGAAAAGGCATTTATATG
 TGGGATGTGGAAGGCAGGCAGTACTTCGATTTCTGAGTGCTTATGGTGTGTGTCAGCCAAGGACTGCC
 ACCCAAAGATCATAGATGCCATGAAGAGTCAGGTGGACAAGCTGACATTAACATCTCGGGCTTTCTATAA
 CAATGTCCTTGGTGAATACGAGGAGTACATCACCAAGCTTTCACTACAACAAAGTTCTCCCTATGAAT
 ACAGGAGTGGAGGCTGGAGAGACTGCATGTAAGCTCGCTCGTCTGGGGCTACACCGTGAAGGCATCC
 AGAAATACAAAGCAAAGATTGTTTTGCTGATGGGAACTTTTGGGGTGAACACTATCTGCAATCTCCAG
 TTCCACAGATCCGACCAGTTATGATGGCTTTGGACCCTTCATGCCAGGCTTTGAAACCATCCCATATAAC
 GATCTGCCCGCACTGGAGCGTGCTTTCAGGATCCAAATGTTGCTGCCTTCATGGTGGAGCCCATCCAGG
 GTGAAGCAGGCGTTATCGTTCGGATCCAGGATACCTGACAGGAGTTCGGGAACCTCTGCACCAGGCACCA
 GGTCTGTTTTATTGCTGATGAAATACAGACAGGATTGGCCAGAAGTGGTAGATGGCTGGCTGTGGATCAT
 GAGAATGTCAGACCTGATATGGTCTTCTTGGGAAGGCCCTTTCTGGCGGTTTATACCCTGTGTCTGCAG
 TGCTGTGTGACGATGAGATAATGCTGACCATTAACCAGGCGAGCACGGCTCCACATACGGCGGAAACCC
 ACTAGGCTGCCGAATTGCCATTGCGGCTTTGAGGTTTTAGAAGAGGAGAATCTTGCTGAGAATGCAGAC
 AAGATGGGCGCTATCCTGAGGAAGGAGCTCATGAAGCTGCCCTGACGTTGTGACCTCAGTGAGAGGGA
 AAGGGTTGCTAAATGCCATTGTGTCATCAGAGAAACCAAGACTGTGATGCTTGAAGGTGTGCTCGGACT
 TCGAGATAACGGGCTTCTGGCCAAGCCAACCCACGGTGATATCATCAGGCTTGGCCCTCCCCTTGTGATC
 AAGGAGGATGAGATCCGGGAGTCCGTGGAGATCATCAACAAGACTATCTTGTCTCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR218472 representing NM_016978
 Red=Cloning site Green=Tags(s)

MLSKLASLQTI AALRRGVHTSVASATSVATKKTEQGPSSSEYIFERESKYGAHNYHPLPVALERKGIYM
 WDVEGRQYDFLSAYGAVSQGHCHPKIIDAMKSQVDKLTLSRAFYNVVLGEYEEYITKLFNYNKVLP MN
 TGVEAGETACKLARRWGYTVKGIQKYKAKIVFADGNFWGRTL SAISSTDPTS YDGF GPFMPGFETIPYN
 DLPALERALQDPNVAAFMVEPIQGEAGVIVDPGYLTGVRELCTRHQVLFIADEIQTGLARTGRWLAVDH
 ENVRPDMVLLGKALSGGLYPVSAVLCDDDEIMLTIKPEHGSTYGGNPLGCR IAI AAEVLEEENLAENAD
 KMGAILRKELMKLP SDVVTSVRGKLLNAIVIRETKDCDAWKVCLRLRDNGLLAKPTHGDIIRLAPPLVI
 KEDEIRESVEIINKTILSF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9038_d12.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



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:

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

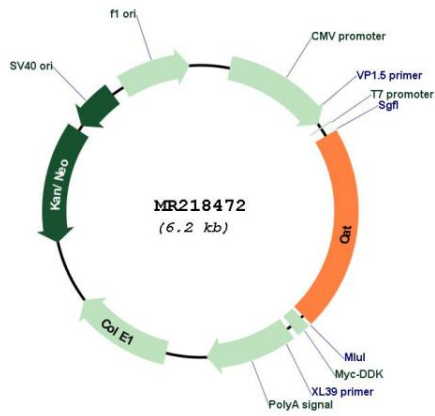
Locus ID: 18242

UniProt ID: [P29758](#)

Cytogenetics: 7 76.3 cM

MW: 48.8 kDa

Product images:



Circular map for MR218472