

Product datasheet for **RN203842**

Msh5 (NM_212536) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Msh5 (NM_212536) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Msh5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN203842 representing NM_212536
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTTTCAGAGCGACCCAGGCCGACGCCCGGGACCCGGCCCGGGTCCCCTCAGCCAGCTTCT
 CCAGCCCTCAGCCTGCAATGGCGGCGCCTGGAGGTATCGAGGAAGAGGACGAGGAGAGCCGGCCGAGAT
 CCATCTGTGTGTCTGTGGAGCTCGGGTATCTGGGCATTGCTTACTATGACACTAGTACTCCACGATC
 CACTTCATGCCAGATGCCCCAGACCACGAGAGCCTGAAGCTTCTCCAGAGAGTTCTGGATGAAATCAACC
 CCCAGTCTGTTGTGACAAGCGCCAAACAGGATGAGGCTATGACTCAATTTCTAGGGAAGCTTGCCTCCCA
 GGAGCACAGAGAGCCAAAGAGACCAGAAATCATCTTCTGCCAAGCGTGGATTTTGGTCCAGAGATAAGC
 AAACAGCGCCTCCTTCCGGAACTACTCCTTCATCTCCGAGTCCATGACCGCCACTGAGAAAATCCTCT
 TCCTCTCCTCCATTATCCCTTTGACTGTGTCTCACGGTCCGGGCACTTGGAGGGCTGCTCAAGTTCCT
 GAGTCGAAGAAGAGTTGGGGTTGAACTGGAGGACTACAGTGTGGCGTCCCTATCCTGGGATTTAAGAAG
 TTTGTATTGACCCATCTGGTGAGCATAGATCAAGACACTTACAGCGTTCTACAGATTTTCAAGAGTGAGT
 CTCACCCCTCAGTGTACAAAGTAGCCAGCGGGCTGAAGGAGGGGCTCAGCCTCTTTGGAATCCTCAACAG
 ATGTGCGTGTAGGTGGGGACAGAAGCTGCTCAGGCTATGGTTTACACGTCCGACCCGGGAGCTACGGGAG
 CTCAATCCCCTGATGTGCTATTGAGTTTTCTGATGCCTCAGAACCTGGACATGGCCAGATGATGC
 ACCGTCTCCTGAGCCACATCAAGAACGTGCCTCTGATTCTGAAACGCATGAAGTTGTCCCATAACAAAGT
 CAGTGACTGGCAGGTGCTCTACAAGACTGTGTACAGCGCCCTCGGCTGAGGGATGCCTGCCGTTCCCTG
 CCCAGTCCATCCAGCTTTTTCCGGACATTACCCAGGAGTTCTCTGACGACCTGCACCACATTGCCAGCC
 TCATCGGGAAGGTGGACTTCGAGGAAAGTCTTGTGAAAATCGTTCACAGTCTCCCAACATAGATCC
 TGAATAGACGCTAAAAAGAGAAGGCTGATGGGCTTCCGAGTTTCTCACGGAAGTTGCTCAGAAGGAG
 CTGGAGAACCTGGACTCTGCATCCCCTCATGCAGTGTCTACATCCCTCTGATCGGCTTCTCCTTT
 CCATCCCAGATTGTCTTTCATGGTGGAGGCCAGTGACTTTGAGATTGAGGGACTGGACTTCATGTTTCT
 CTCAGAGGACAAGCTGCACTACCGTAGTGCCCGGACCAAGGAGCTGGACGCACTGCTGGGAGACCTGCAC
 TGCGAGATCCGGGACCAGGAGATGCTGCTGATGCACCAGCTGCAGTGCAGGTGCTGGCACGGGCTCCGG
 TCTTGACTCGGGTACTGGACCTTGCTCCCGCTGGACGCTCTGTGGCTTGGCAGTGCCGCCCGGGGA
 CTACGGCTATTCGAGACCGCATTACTCTCCTGCATCCAGGGAGTACGAATCAAGATGGCCGGCATCCA
 CTGATGGAGCTGTGCGCACGGACCTTCGTGCCAACTCCACAGACTGCGGTGGGACCAGGGGAGGGTCA
 AAGTCATCACTGGACCAACTTTCAGGAAAAGCATATATCTGAAACAGGTAGGCTTGATCACCTTCAT
 GGCCCTGGTGGGAGCTTCGTGCCTGCAGAGGAGGCAGAAATGGGGTAATCGACGCCATCTTACCCCGA
 ATTCACAGCTGCGAGTCCATCTCCCTCGGTCTCTCCACCTTCATGATTGATCTCAACCAGGTGGCGAAAAG
 CAGTGAACAATGCCACAGAGCACTCTCTGGTCTTATTGACGAATTCGGGAAGGGAACTCGGTGGG
 TGGTCTGGCACTTCTGACTGCTGTGCTCCGTCACTGGCTAGCACTGGGACCCAGCTGCCCGCACATCTTT
 GTGGCCACCAACTTCTGAGCCTTGTTCCAGCTGCAGCTGCTGCCCAAGGACCCCTGGTACAGTATTTGA
 CCATGGAGACTTGTGAGGATGGGAACGACCTTGTCTTCTATCAGCTTTGCCATGGCGTCGCCAGTGC
 CAGCCATGCCTCCTACACTGCGGCCAGGCTGGACTTCTGACCCACTATTGCTCGAGGCAAGAGGGTCT
 TCAGACTCGATCCGACGCGGGAAGCCCGTCAAGCCCATGCATGAACTTGTGAGGAGGACCCAGATGGAAA
 ATTGCCAGGCCCTGGTGGATAAATTTCTAAAATTGGACTTGAAGATCCCTCACTGGACCTGGACATTTT
 CATTAGTCAGGAAGTGCTCCCTGCCGCCACCACCATCTTGA

ACGGCTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_212536
Insert Size: 2493 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:	NM_212536.2 , NP_997701.2
RefSeq Size:	2679 bp
RefSeq ORF:	2493 bp
Locus ID:	294252
UniProt ID:	Q6MG62
Cytogenetics:	20p12
Gene Summary:	member of the mutS family of proteins; involved in DNA mismatch repair or meiotic recombination; <i>Saccharomyces cerevisiae</i> homolog is important for meiotic segregation fidelity and crossing-over [RGD, Feb 2006]