

## Product datasheet for **RG210144**

### **MOS (NM\_005372) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MOS (NM\_005372) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** MOS  
**Synonyms:** MSV  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG210144 representing NM\_005372  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCCTCGCCCCTGGCCCTACGCCCTACCTCCGGAGCGAGTTTTCCCATCGGTGGACGCGCGGCCCT  
GCAGCAGTCCCTCAGAGCTACCTGCGAAGCTGCTTCTGGGGCCACTCTCCTCGGGCCCGCGGCTGCC  
GCGCCGGTGGCCTGGTGTCTCCATTGACTGGGAGCAGGTGTGCTTGCTGCAGAGGCTGGGAGCTGGAGGG  
TTTGGCTCGGTGTACAAGGCGACTTACCGCGGTGTTCTGTGGCCATAAAGCAAGTGAACAAGTGCACCA  
AGAACCGACTAGCATCTCGGCGGAGTTTCTGGGCTGAGCTCAACGTAGCAAGGCTGCGCCACGATAACAT  
CGTGCGCGTGGTGGCTGCCAGCAGCGCACGCCCGCAGGGTCCAATAGCCTAGGGACCATCATCATGGAG  
TTCGGTGGCAACGTCACTTTACACCAAGTCATCTATGGCGCCCGCCGCCACCCTGAGGGGACGCAGGGG  
AGCCTCACTGCCGCACTGGAGGACAGTTAAGTTTGGAAAGTGTCTCAAGTACTCACTAGATGTTGTGAA  
CGGCTGCTCTTCTCCACTCGCAAAGCATTGTGCACTTGGACCTGAAGCCCGGAACATCTTGATCAGT  
GAGCAGGATGTCTGAAAATTAGTGACTTCGGTTGCTCTGAGAAGTTGGAAGATCTGCTGTGCTTCCAGA  
CACCTCTTACCCTCTAGGAGGCACATACACCCACCGCCCCGGAGCTCCTGAAAGGAGAGGGCGGTGAC  
GCCTAAAGCCGACATTTATTCCTTTGCCATCACTCTTGCAAATGACTACCAAGCAGGGCCCGTATTCCG  
GGGAGCGGCAGCACATACTGTACGCGGTGGTGGCCTACGACTGCGCCCGTCCCTCTCCGCTGCCGTCT  
TCGAGGACTCGCTCCCCGGCAGCGCCTTGGGGACGTATCCAGCGCTGCTGGAGACCCAGCGCGGCCGA  
GAGGCCGAGCGCGCGCTGCTTTTGGTGGATCTCACCTCTTTGAAAGCTGAACTCGGCTG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG210144 representing NM\_005372  
 Red=Cloning site Green=Tags(s)

MPSPLALRPYLRFSEFSPSVDARPCSSPELPAKLLL GATLPRAPRLPRRLAWCSIDWEQVCLLQRLGAGG  
 FGSVYKATYRGPVPAIKQVNKCTKNRLASRRSFWAELNVARLRHDNIVRVVAASRTRPAGSNSLGTIIME  
 FGGNVTLHQVIYGAAGHPEGDAGEPHCRTGGQLSLGKCLKYSLDVVNGLLFLHSQSIVHLDLKPANILIS  
 EQDVCKISDFGCSEKLEDLLCFQTPSYPLGGTYTHRAPELLKGEVTPKADIYSFAITLWQMTTKQAPYS  
 GERQHILYAVVAYDLRPSLSAAVFEDSLPGQRLGDVIQRCWRPSAAQRPSARLLLVDLTSLKAE LG

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_005372

**ORF Size:** 1040 bp

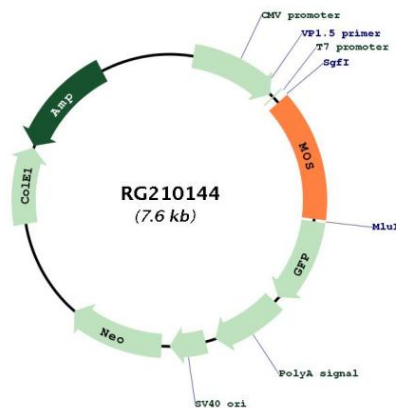
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_005372.1</a> , <a href="#">NP_005363.1</a>
<b>RefSeq Size:</b>	1041 bp
<b>RefSeq ORF:</b>	1041 bp
<b>Locus ID:</b>	4342
<b>UniProt ID:</b>	<a href="#">P00540</a>
<b>Cytogenetics:</b>	8q12.1
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	MAPK signaling pathway, Oocyte meiosis, Progesterone-mediated oocyte maturation, Regulation of actin cytoskeleton
<b>Gene Summary:</b>	MOS is a serine/threonine kinase that activates the MAP kinase cascade through direct phosphorylation of the MAP kinase activator MEK (MAP2K1; MIM 176872) (Prasad et al., 2008 [PubMed 18246541]).[supplied by OMIM, Jul 2009]

### Product images:



Circular map for RG210144