

## Product datasheet for **MG209607**

### **Muc1 (NM\_013605) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Muc1 (NM_013605) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Muc1
Synonyms:	CD227; EMA; Muc-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG209607 representing NM\_013605  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGACCCCGGCATTTCGGCTCCTTTCTCCTGCTGCTACTTCTAGCAAGTCTAAAAGTTTTCTTGCCC  
 TTCCAAGTGAGGAAAACAGTGTACCTCATCTCAGGACACCAGCAGTTTCCTTAGCATCGACTACCACTCC  
 AGTCCACAGCAGCAACTCAGACCCAGCCACCAGACCTCCAGGGGACTCCACCAGCTCTCCAGTCCAGAGT  
 AGCACCTTTCTCCAGCCACCAGAGCTCCTGAAGACTCTACCAGTACTGCAGTCTCAGTGGTACCTCCT  
 CCCAGCCACCACAGTCCAGTGAAGTCTGCCAGCTCTCCGGTAGCCCATGGTGACACCTTTCCCAGC  
 CACTAGCCTTTCAAAGACTCCAACAGCTCTCCAGTAGTCCACAGTGGCACCTCTCAGTCCGGCCACC  
 ACAGCTCCAGTGGATTCCACCAGCTCTCCAGTAGTCCACGGTGGTACCTTGCCCCAGCCACCAGCCCTC  
 CAGGGGACTCCACCAGCTCTCCAGACCATAGTAGCACCTTTCTCCAGCCACCAGAGTCCCGAAGACTC  
 TACCAGTACTGCAGTCTCAGTGGCACCTCTCCAGCCACCACAGCTCCAGTGGACTCCACCAGCTCT  
 CCAGTAGCCCATGATGACACCTTTCCAGCCACTAGCCCTTCCAGAAGACTCCGCCAGCTCTCCAGTAG  
 TCCACGGTGGCACCTCGTCCCAGCCACCAGCCCTCTAAGGGACTCCACCAGTTCTCCAGTCCACAGTAG  
 TGCTCCATCCAAAACATCAAGACTACATCAGACTTAGCTAGCACTCCAGACCACAATGGCACCTCAGTC  
 ACAACTACCAGCTCTGCACTGGGCTCAGCCACCAGTCCAGACCACAGTGGTACCTCAACTACAATAACA  
 GCTCTGAATCAGACTTGGCCACCCTCCAGTTTACAGTAGCATGCCATTTCTACTACAAAAGTACGCTC  
 AGGCTCAGCTATCATTCCAGACCACAATGGCTCCTCGGTGCTACCTACCAGTTCTGTGTTGGGCTCAGT  
 ACCAGTCTAGTCTATAATACCTCTGCAATAGCTACAACCCAGTCCAGTCCAGTCCAGTCCAGTCCAGT  
 CAAGTCAATACCCTGTTTCTCCTACCATGGCCACCACCTCCAGCCATAGCACTATTGCCAGCAGCTTTA  
 CTATAGCACAGTACCATTTTCTACCTTCTCCAGTAAACAGTTACCCAGTTGTCTGTTGGGTCTCCTTC  
 TTCTTCTGTCTTTTACATTCAAACCACCCATTTAATTCTTCTGGAAGACCCAGCTCCAACACTACT  
 ACCAAGAAGTGAAGAGGAACATTTCTGGATTGTTTCTGCAGATTTTAAACGGAGATTTTCTGGGATCTC  
 TAGCATCAAGTTCAGGTCAGGCTCCGTGGTGGTAGAATCGACTGTGGTTTTCCGGGAGGGTACTTTTAGT  
 GCCTCTGACGTGAAGTACAGCTTATACAGCATAAGAAGGAGGCAGATGACTATAATCTGACTATTTAG  
 AAGTCAAAGTGAATGAGATGCAGTTCCTCCCTGCCCAGTCCCGCCGGGGTACCAGGCTGGGGCAT  
 TGCCCTGCTGGTCTGTATTTGGTTGCTTTGGCTATCGTCTATTTCTTGCCTGGCAGTGTGC  
 CAGTGGCCGCCAAAGAGCTATGGGCAGTGGACATCTTTCCAACCCAGGACACCTACCATCTATGAGTG  
 AATACCCTACCTACCACACTCACGGACGCTACGTGCCCCCTGGCAGTACCAAGCGTAGCCCTATGAGGA  
 GTTTTCCGCAGGTAATGGCAGTAGCAGTCTCTTATACCAACCCAGCTGTGGTACCACCTCTGCCAAC  
 TTG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG209607 representing NM\_013605  
 Red=Cloning site Green=Tags(s)

MTPGIRAPFFLLLLLNLASLKGFLALPSEENSVTSSQDTSSSLASTTTPVHSSNSDPATRPPGDSTSSPVQS  
 STSSPATRAPEDSTSTAVLSGTSSPATTAPVNSASSPVAHGDTSSPATSLKDSNSSPVVHSGTSSAPAT  
 TAPVDSTSSPVVHGTLSPATSPPGDSTSSPDHSTSSPATRAPEDSTSTAVLSGTSSPATTAPVDSTSS  
 PVAHDDTSSPATSPSEDSASSPVVHGTLSPATSPPLRSTSSPVHSSASIQNIKTSDLASTPDHNGTSV  
 TTTSSALGSATSPDHSGTSTTTNSSESDLATTPVYSSMPFSTTKVTSGSAIIPDHNGSSVLPTSSVLGSA  
 TSLVYNTSAIATTPVSNGTQPSVPSQYPVSPTMATSSSHSTIASSSYSTVPFSTFSSNSSPQLSVGVSF  
 FFLSFYIQNHFPNSSLEDPSNYYQELKRNISGLFLQIFNGDFLGISSIKFRSGSVVVESTVVFREGTFS  
 ASDVKSQLIQHKKEADDYNTLISEVKVNEMQFPFSAQSRPGVPGWGIALLVLCILVALAIVYFLALAVC  
 QCRKRSYQLDIFPTQDTHYPMSEPTYHHTGRYVPPGSTKRSPYEEVSAGNGSSSLSYTNPAVVTTSAN  
 L

**TRTRPLE** – GFP Tag – V

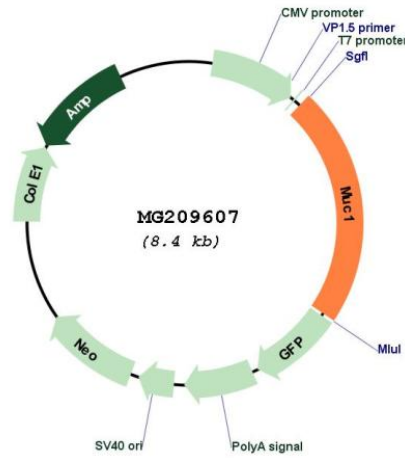
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_013605

ORF Size: 1893 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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_013605.1</a> , <a href="#">NP_038633.1</a>
<b>RefSeq Size:</b>	2235 bp
<b>RefSeq ORF:</b>	1896 bp
<b>Locus ID:</b>	17829
<b>UniProt ID:</b>	<a href="#">Q02496</a>
<b>Cytogenetics:</b>	3 39.02 cM
<b>Gene Summary:</b>	The alpha subunit has cell adhesive properties. Can act both as an adhesion and an anti-adhesion protein. May provide a protective layer on epithelial cells against bacterial and enzyme attack.[UniProtKB/Swiss-Prot Function]