

## Product datasheet for **RC202508**

### **PAG608 (ZMAT3) (NM\_022470) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PAG608 (ZMAT3) (NM_022470) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PAG608
Synonyms:	PAG608; WIG-1; WIG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202508 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATCCTCTTGCAACACGCCGTGCTTCTCCACCTAAGCAGCCCTCACCTCGCCTCCTATGTCAGTGG  
CCACCAGGTCTACAGGAACCTTGCAGCTTCCACCACAGAAGCCTTTTGGCAGGAGGCTTCTTGCCTCT  
TGCAGGGGAAGAAGAGTTATCGAAGGGAGGGGAGCAAGACTGTGCCCTGGAGGAGCTATGTAAGCCCTG  
TACTGCAAACCTGCAATGTCACCTTGAACCTGCACAGCAAGCCAGGCTCATTATCAGGGTAAAAATC  
ATGGTAAGAACTCCGAAATTAATGCAGCAAATAGCTGTCTCCTCCTGCTAGAATGAGCAATGTGGT  
CGAGCCTGCAGCTACTCCAGTTGTTCCAGTCCCTCCGCAGATGGGCTCCTTTAAGCCAGGAGGCCGAGTG  
ATCCTGGCCACGGAGAATGATTACTGTAAGCTCTGTGATGCCTCCTTCAGTTCCCCAGCTGTGGCTCAGG  
CTCACTATCAAGGGAAGAATCATGCCAAGAGGCTGCGGCTGGCGGAAGCTCAGAGTAACTCATTCTCGGA  
ATCCTCAGAGCTGGGTCAACGGCGGGCCAGGAAAGAAGGGAATGAGTTAAGATGATGCCTAACAGGAGA  
AATATGTATACAGTACAGAATAATTCAGCAGGTCTTACTTCAATCCCGCTCTCGGCAGAGAATCCAC  
GTGATCTGGCCATGTGTGTTACTCCAAGTGCCAGTTTACTGCTCAATGTGTAATGTTGGAGCTGGCGA  
AGAGATGGAATCCGGCAGCATTAGAGAGCAAGCAACATAAGAGCAAGGTGTCTGAACAGCGGTACAGG  
AATGAGATGGAGAATCTGGGATATGTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC202508 protein sequence  
 Red=Cloning site Green=Tags(s)

MILLQHAVLPPPKQSPSPPPMSVATRSTGTLQLPPQKPFQGEASLPLAGEEELSKGGEQDCALEELCKPL  
 YCKLCNVTLNSAQQAAHYQGKNGKRLRNYAANSCPPPARMSNVVPAATPVVPVPPQMGSFKPGGRV  
 ILATENDYCKLCDASFSSPAVAQAHYQGKNAKRLRLAEAQSNSFSESSELGQRRARKEGNEFKMMPNRR  
 NMYTVQNNAGPYFNPRSRQRIPRDLAMCVTPSGQFYCSMCNVGAGEEMEFHQHLESKQHKSKVSEQRYR  
 NEMENLGYV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

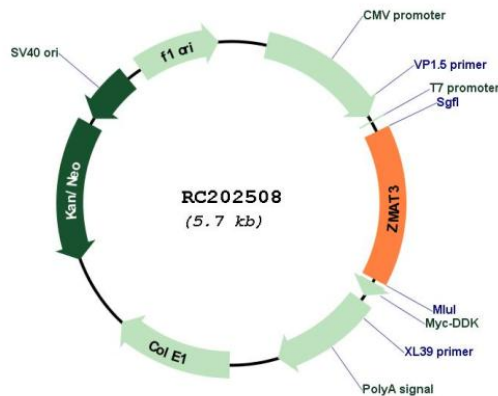
Chromatograms: [https://cdn.origene.com/chromatograms/mk6706\\_d04.zip](https://cdn.origene.com/chromatograms/mk6706_d04.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



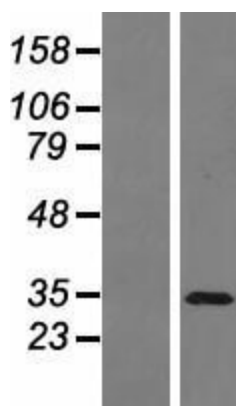
Plasmid Map:



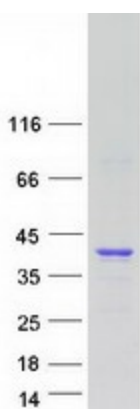
ACCN: NM\_022470

<b>ORF Size:</b>	867 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_022470.4</a>
<b>RefSeq Size:</b>	8995 bp
<b>RefSeq ORF:</b>	870 bp
<b>Locus ID:</b>	64393
<b>UniProt ID:</b>	<a href="#">Q9HA38</a>
<b>Cytogenetics:</b>	3q26.32
<b>Domains:</b>	ZnF_U1, zf-C2H2
<b>Protein Families:</b>	Transcription Factors
<b>Protein Pathways:</b>	p53 signaling pathway
<b>MW:</b>	32.1 kDa
<b>Gene Summary:</b>	This gene encodes a protein containing three zinc finger domains and a nuclear localization signal. The mRNA and the protein of this gene are upregulated by wildtype p53 and overexpression of this gene inhibits tumor cell growth, suggesting that this gene may have a role in the p53-dependent growth regulatory pathway. Alternative splicing of this gene results in two transcript variants encoding two isoforms differing in only one amino acid. [provided by RefSeq, Jul 2008]

## Product images:



Western blot validation of overexpression lysate (Cat# [LY411657]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202508 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ZMAT3 protein (Cat# [TP302508]). The protein was produced from HEK293T cells transfected with ZMAT3 cDNA clone (Cat# RC202508) using MegaTran 2.0 (Cat# [TT210002]).