

Product datasheet for **RG202508**

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:	TurboGFP
Symbol:	ZMAT3
Synonyms:	PAG608; WIG-1; WIG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202508 representing NM_022470 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATCCTCTTGCAACACGCCGTGCTTCTCCACCTAAGCAGCCCTCACCTCGCCTCCTATGTCAGTGG
CCACCAGGTCTACAGGAACCTTGCAGCTTCCACCACAGAAGCCTTTTGGCAGGAGGCTTCTTGCCTCT
TGCAGGGGAAGAAGATTATCGAAGGGAGGGGAGCAAGACTGTGCCCTGGAGGAGCTATGTAAGCCCTG
TACTGCAAACCTGCAATGTCACCTTGAACCTGACAGCAAGCCAGGCTCATTATCAGGGTAAAAATC
ATGGTAAGAACTCCGAAATTAATGTCAGCAAATAGCTGTCTCTCTGCTAGAAATGAGCAATGTGGT
CGAGCCTGCAGCTACTCCAGTTGTTCCAGTCCCTCCGCAGATGGGCTCCTTTAAGCCAGGAGGCCGAGT
ATCCTGGCCACGGAGAATGATTACTGTAAGCTCTGTGATGCCTCCTTCAGTTCCCCAGCTGTGGCTCAGG
CTCACTATCAAGGGAAGAATCATGCCAAGAGGCTGCGGCTGGCGGAAGCTCAGAGTAACTCATTCTCGGA
ATCCTCAGAGCTGGGTCAACGGCGGGCCAGGAAAGAAGGGAATGAGTTTAAAGATGATGCCTAACAGGAGA
AATATGTATACAGTACAGAATAATTCAGCAGGTCTTACTTCAATCCCGCTCTCGGCAGAGAATCCAC
GTGATCTGGCCATGTGTGTTACTCCAAGTGCCAGTTTACTGCTCAATGTGTAATGTTGGAGCTGGCGA
AGAGATGGAATCCGGCAGCATTAGAGAGCAAGCAACATAAGAGCAAGGTGTCTGAACAGCGGTACAGG
AATGAGATGGAGAATCTGGGATATGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202508 representing NM_022470
Red=Cloning site Green=Tags(s)

MILLQHAVLPPPKQSPSPPMMSVATRSTGTLQLPPQKPFQGEASLPLAGEEELSKGGEQDCALEELCKPL
 YCKLCNVTLNSAQAQAHYQGNHGKLRNYAANSCPPPARMSNVVPAATPVVPVPPQMGFSFKPGGRV
 ILATENDYCKLCDASFSSPAVAQAHYQGNHAKRLRLAEAQSNSFSESSELGQRRARKEGNEFKMMPNRR
 NMYTVQNNAGPYFNPRSRQRIPRDLAMCVTPSQGFYCSMCNVGAGEEMEFHQHLESKQHKSKVSEQRYR
 NEMENLGYV

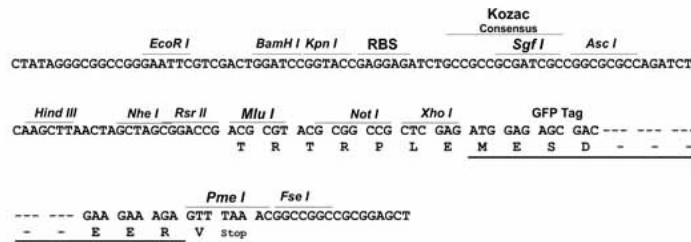
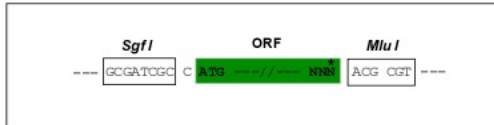
TRTRPLE - GFP Tag - V

Restriction Sites:

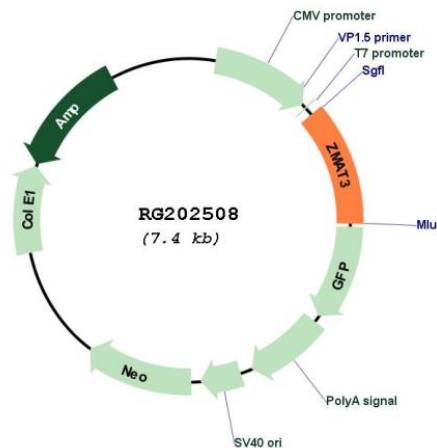
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_022470

ORF Size: 867 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:	<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_022470.4
RefSeq Size:	2432 bp
RefSeq ORF:	870 bp
Locus ID:	64393
UniProt ID:	Q9HA38
Cytogenetics:	3q26.32
Domains:	ZnF_U1, zf-C2H2
Protein Families:	Transcription Factors
Protein Pathways:	p53 signaling pathway
Gene Summary:	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]