

## Product datasheet for **RG224050**

### Tensin 1 (TNS1) (NM\_022648) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tensin 1 (TNS1) (NM_022648) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tensin 1
Synonyms:	MST091; MST122; MST127; MSTP091; MSTP122; MSTP127; MXRA6; PPP1R155; TNS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG224050 representing NM_022648 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTGTGAGCCGACCATGGAGGACAGCTGTGAGCTGGACCTGGTGTACGTACAGAGAGGATCATCG  
CTGTCTCCTTCCCAGCACAGCCAATGAGGAGAACTCCGGAGCAACCTCCGTGAGGTGGCGCAGATGCT  
CAAGTCCAACATGGAGGCAACTACCTGCTGTTCAACCTCTCTGAGCGGAGACCTGACATCAGGAAGCTC  
CATGCCAAGTACTGGAATTTGGCTGGCCGACCTCCACACCCAGCCCTGGAGAAGATCTGCAGCATCT  
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CAGGCCATGCAACCTGTGTACACATCTGGCATCTACAACATCCCAGGAGACAGCCAGACTAGCGTCTGCA  
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CCCAGCCCGAGACGTCACTTCCGTGTGCAAGTCCACACCTGTGCCATCCATGACCTGGGGTTGTCTTT  
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TAACACCTCCGACCCCTCATCCGCTGGGACTCCTACGACAACCTCAGTGGGCATCGAGATGACGGCATG  
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GCGTTAGCATCTGAGCGGGAGACAGACATCCTGGACGATGAATTGCCAAACCAGGATGGTCACAGTGCGG  
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 GGGCAGCACCCTCCTTCTCCACACTCTGCCGACTTCTCCAAGTACTCCATGCCAGACAACAGCCC  
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 CAGACGCCACTACCTCTCAACTGTACCTTCTGTGACCTGGATCCACAGGAAAGAAAGTGGATGAAA  
 ACAGAGGGTGGTCCCTGCTAAGCTCTTCGGCTTCGTGGCCCGAAGCAGGGCAGCACCACGGACAACG

CCTGCCACCTCTTTGCTGAGCTTGACCCCAACCAGCCGGCCTCTGCCATCGTCAACTTCGCTCCAAGGT  
CATGCTGAATGCCGGCCAAAAGAGA

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG224050 representing NM\_022648  
Red=Cloning site Green=Tags(s)

MSVSRTMEDSCELDLVYVTERIIAVSFPSTANEENFRSNLREVAQMLKSKHGGNYLLFNLSERRPDITKL  
HAKVLEFGWPDHLHPALEKICSIKAMDWLNADPHNVVVLHNKGNRGRIGVVI AAYMHYSNISASADQA  
LDRFAMKRFYEDKIVPIGQPSQRRYVHYFSGLLSGSIKMNKPLFLHHVIMHGIPNFESKGGCRPFLRIY  
QAMQPVYTSGIYNIPGDSQTSVCITIEPGLLLKGDILLKCYHKKFRSPARDVIFRVQFHCAIHDLGVV  
GKEDLDDAFKDDRFPEYGVKVEFVFSYGPEKIQGMEHLENGPSVSDYNTSDPLIRWDSYDNFSGHRDDGM  
EEVVGGTQGPLDGSLYAKVKKKDSLHGSTGAVNATRPTLSATPNHVEHTLSVSSDSGNSTASTKTDKDE  
PVPGASSATAALSPQEKRELDRLLSGFLEREKQGAMYHTQHLRSRPAGGSAPVSSGRHVVPAQVHVNGG  
ALASERETDILDDELPNQDGHSAAGSMGLSSLDGVTNTSEGGYPEAL SPLTNGLDKSYMPEPMVNGGGYP  
YESASRAGPAHAGHTAPMRPSYSAQEGLAGYQREGPHPAWPQPVTTSHYAHDPGSMFRSQSFSEAEPQLP  
PAPXXRGGSSREAVQRGLNSWQQQQQQQPRPPRQERAHLESLVASRPSQPLAETPIPSPLEFPRA  
ASQQEIEQSIETLNMLMLDLEPASAAAAPLHKSQSVPGAWPGASPLSSQPLSGSSRQSHPLTQSRSGYIPS  
GHSLGTPEPAPRASLESVPPGRSYSPYDYPCLAGPNQDFHSKSPASSSLPAFLPTTHSPPGPQPPASL  
PGLTAQPLLSPKEATSDPSRTPEEEPLNLEGLVAHRVAGVQAREKQPAEPPAPLRRRAASDGOYENQSPE  
ATSPRSPGVRSPVQCVSPELAL TIALNPGGRPKEPHLHSYKEAFEEMEGTSPSSPPPSGVRSPPLAKTP  
LSALGLKPHNPADILLHPTGVTRRRRIQPEEDEGKVVVRLSEEPRSYVESVARTAVAGPRAQDSEPKSFS  
PATQAYGHEIPLRNGTLGGSFVSPSPLSTSSPILSADSTSVGSFSPGESSDQGPRTPTQPLLESGFRSGS  
LGQPSPSAQRNYQSSSPLPTVGGSSYSSPDYSLQHFSSSPESQARAQFSVAGVHTVPGSPQARHRTVGTNT  
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HNKVATTPGSPSLGRHPGAHQGNLASGLHSNAIASPGSPSLGRHLGGSGSVVPGSPCLDRHVAYGGYSTP  
EDRRPTLSRQSSASGYQAPSTSPFVSPAYYPGLSSPATSPSPDSAAFRQGSPTPALPEKRRMSVGDRA  
SLPNYATINGKVSSPVASGMSSPSGGSTVSFSHTLPDFSKYSMPDNSPETRAKVKFVQDTSKYWYKPEIS  
REQAIALLLKQEPGAFIIRDSHSFRGAYGLAMKVSSPPPTIMQQNKKGDMTHELVRHFLIETGPRGVKLL  
GCPNEPNFGSLSALVYQHSIIPALPCKLVIPNRDPTDESKDSSGPANSTADLLKQGAACNVLFVNSVDM  
ESLTGPQAIKATSETLAADPTPAATI VHFVSAQGITLTDNQKLFRRHYPLNTVTFCDLDPQERKWM  
KTEGGAPAKLFGFVARKQGSTTDNACHLFAELDPNPASAI VNFVSKVMLNAGQKR

TRTRPLE - GFP Tag - V

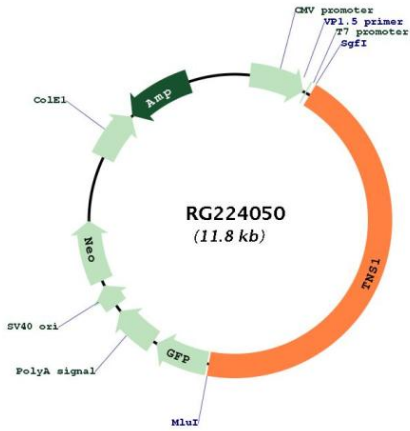
**Restriction Sites:**

SgfI-MluI



<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<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_022648.6</a>
<b>RefSeq Size:</b>	10276 bp
<b>RefSeq ORF:</b>	5208 bp
<b>Locus ID:</b>	7145
<b>UniProt ID:</b>	<a href="#">Q9HBL0</a>
<b>Cytogenetics:</b>	2q35
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	<p>The protein encoded by this gene localizes to focal adhesions, regions of the plasma membrane where the cell attaches to the extracellular matrix. This protein crosslinks actin filaments and contains a Src homology 2 (SH2) domain, which is often found in molecules involved in signal transduction. This protein is a substrate of calpain II. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2015]</p>

Product images:



Circular map for RG224050