

## Product datasheet for **RG215916**

### TSHZ1 (NM\_005786) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TSHZ1 (NM_005786) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TSHZ1
Synonyms:	CAA; NY-CO-33; SDCCAG33; TSH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215916 representing NM_005786 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

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ACCAGGACGCCGGCTACGGGTCGCCCTTCAGTGAGAGCAGCGACCAGCTAGCCATTTCAAAGGCTCTTC  
CTCTCGAGAAGAGAAGGAGGATCCGCAGTGTCCCAGCAGCTCTCGTACCCCCAGGACAGCCTGGCAGAG  
ATCAAAGCTGTGTATGCAAACCTGTTCTCCGAGTCTGCTGGTCCAGCTTAGCTCTGGATTTAAAGAAGT  
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CTGCCCGTCTCAGCACCCTGGCCCCACCCAGCAGCAGCCAGCAGCTGCAGCTCCAGCACCAGCCAC  
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CAACAAGCTCTACGGCTCCGTCTTACGGGCGCCAGCAAGTTCGGGTGCAAAGACTGCAGTGCAGCGTAC  
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ACTCCGAGAAGACCAAGAGGTGGTCCAAGCCAGGAAGCGCTCCCTGATGGAGATGGAGGGGAAGGAGGA  
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CTGCGTGAGGAGGACCTGGACGACAGCCCCAAGGGAGGGCTGGACATTCTCAAGTCCCTGGAGAATACCG
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TCAGAAGTCTTACATACATAAGTCAATTTGGAGACACACTGGGCTTTCAGCCTGAAGGATCTCTCAA
GCTGCCACTCAATCAGATTCAAGAACAGCAGAAATGTTTCGAAAGTCTCCACCAACAAAACCTGGGCCCA
CTGGGGGCCACCGAGGAAGACTTGGGCTCCACATTCGAATGTAAGCTCTGCAACCGGACTTTTGCAGCA
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TGAGTTGGAGAAACAG
    
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG215916 representing NM\_005786  
 Red=Cloning site Green=Tags(s)

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MCNEETEIKEAQSYQNSPVSSATNQDAGYGSFSESSDQLAHFKGSSSREEKEDPQCPDSVSYQDLSLAQ
IKAVYANLFSESCWSSLALDLKKSSTSTNDASQKESSAPTPPTCPVSTTGPTTSTPSTSCSSSTSH
SSTTSTSSSSGYDWHQAALAKTLQQTSSYGLLPEPSLFSTVQLYRQNNKLYGSVFTGASKFRCKDCSAAY
DTLVELTVHMNETGHYRDDNRDKDSEKTKRWSKPRKRSLMEMEGKEDAQKVLKCMYCGHSFESLQDLSVH
MIKTKHYQKVPVKPVPATIKLVPSTKKRALQDLAPPCSEPEAGMAAEVALSESAKDQKAANPYVTPNNR
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QSIPLPPTHTHRLPASSIKKQPDSPAGSTTSEEKKEPEKEKPPVAGDAEKIKEESEDLSLEKFEPTSLYPY
LREEDLDDSPKGGDLILKSLENTVSTAIKAQNGAPSWGYPYIHAAYQLPGTVKPLPAAVQSVQVQPSY
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LSALQSIMNTHLGKYSKPVSPSLDPLAMLYKISNSMLDKPVYPATPVKQADAIIDRYYYENSQPIDLTKS
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KGRQSNWNPQHLLILQAQFASSLRETTEGKYIMSDLGPQERVHISKFTGLSMTTISHWLANVKYQLRRTG
GTKFLKNLDTGHPVFFCNDCASQFRTASTYISHLETHLGFSLKDL SKLPLNQIQEQNVSKVL TNKTLGP
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TRTRPLE - GFP Tag - V

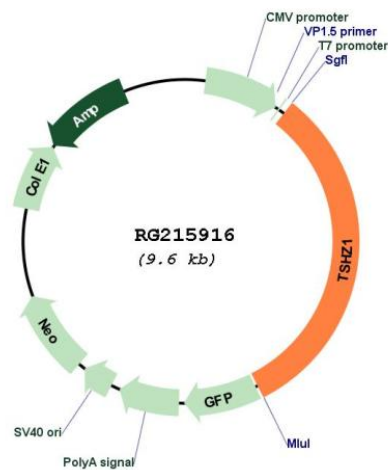
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_005786

ORF Size: 3096 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](#)

<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_005786.6</a>
<b>RefSeq Size:</b>	4982 bp
<b>RefSeq ORF:</b>	3099 bp
<b>Locus ID:</b>	10194
<b>UniProt ID:</b>	<a href="#">Q6ZSZ6</a>
<b>Cytogenetics:</b>	18q22.3
<b>Domains:</b>	homeobox, zf-C2H2
<b>Protein Families:</b>	Transcription Factors
<b>Gene Summary:</b>	This gene encodes a colon cancer antigen that was defined by serological analysis of recombinant cDNA expression libraries. The encoded protein is a member of the teashirt C2H2-type zinc-finger protein family and may be involved in transcriptional regulation of developmental processes. Mutations in this gene may be associated with congenital aural atresia syndrome. [provided by RefSeq, Jan 2012]