

## Product datasheet for **RG221615**

### TTC23 (NM\_001040657) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TTC23 (NM_001040657) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TTC23
Synonyms:	HCC-8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG221615 representing NM\_001040657  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCAAGAAATCACAGAAACCCACATATCCAACCACCTAGATGAAGTTGTTGCTGCTGTTAGCATCACTC  
 ATAGAAAAGAAATTCCAAAACAAGCTGCTTCAGACAGCACTATTCCAGCCTCCTCGAGAGAAACTCCACCT  
 CTGTGAAGAGAAAAGCAAAGTCTATTCCAACAGTCATGAGTACAAAACAGGCCGCTCCATGAGCTTGTGCGT  
 TGCGTAGCACTGACAAGAATTTGCTATGGAGACTCACATTGAAACTAGCAGAGGCACATGTTAATCTGG  
 CTCAAGGCTACCTCCAGCTGAAAGGACTGCTACTGCAAGCAAAAACAACATGCAGAAAAAGCCAGACAAAT  
 CCTCGCCAACTCCATTGTGCCTCCCTATAGTGAGAATACAGATGTTTTCAAGTTTTCCATTGAGCTTTTC  
 CATACCATGGGCAGAGCTTTACTCTCCCTTCAAAAATTTAAGGAAGCTGCAGAGAATTTGACAAAAGCAG  
 AGAGACTTTCAAAGGAGCTGCTACAATGTGGAAGAATTATAAAGGAAGAATGGATAGAAAATTGAAGCAGC  
 GATCAGATTATCATTTGCACAGGTGATCAAGGTCAGAAGAAGTCAAAGAAGCTTTGTCCCACTATCAA  
 GCAGCTTTGGAATATGTTGAGATCAGTAAAGGTGAAACAAGTCGTGAGTGTGTACCCATATTGAGAGAAT  
 TAGCAGGTGTAGAGCAAGCCCTGGGACTCCACGATGTATCCATCAACCACCTTCTCCAGGCACATCTTAT  
 CATCCTGAGTAGAAGCCCTCTCAAGTGGAGGCAGCAGACTCGGCACACATCGTCGCCCATGCTGTGTGC  
 GCTTCAGGGAGACACGAGCACCATGATGTAGCTGAGCAGTATTTTCAAGAGAGCATGGCTCATCTTAAGG  
 ATTCTGAAGGGATGGGAAGAACCAATTTCTTTCAATTCAAGTGAATTTTGCCATTTTCTACAAATGAC  
 TGGAAAAAGAGAGACAACCTCGATCCTGAGAGAGTCCCTGGAAGCCAAAGTGAAGCATTGGCGAT  
 TTCAGTCCCGAGGTGGCAGAGACATACCGGCTCCTGGGAGGAGCAGACCTGGCGCAGGGGAACACAGTG  
 GGGCCCGCAAGAACTGAAGAAGTGTCTCCAGATCCAGACCCCTTATATGGACCGCAGGACAAAAGGAC  
 TCTGGCCACCCAGCAGGCCATGGGCATGCTGTCCACGGCCCCAAGGTTGCTTGAAGCCAAAGGCAGGCA  
 TCAAAAAGCCAAAGTGGCCTTCTGCACCAGCATCCCTCAGGACACCCTGCTGGGAAGGCCCGCCCGGCA  
 CAACAGCAGAC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG221615 representing NM\_001040657  
 Red=Cloning site Green=Tags(s)

MQESQETHISNHLDEVVAAVSITHRKKFQNKLLQTALFQPPREKLHLCEEKAKSYSNSHEYKQAVHELVR  
 CVALTRICYGDShwKLAEAHVNLAQGYLQLKGLSLQAKQHAEKARQILANSIVPPYSENTDVFKFSIELF  
 HTMGRALLSLQKFKEAENLTKAERLSKELLQCGRIIKEEWIEIEARIRLSFAQVYQGQKSKEALSHYQ  
 AALEYVEISKGETSRECVPIRELAGVEQALGLHDVSIHFQAHLIILSRSPSQVEAADS AHIVAAV  
 ASGRHEHHDVAEQYFQESMAHLKDSEGMGRKFLSIQDEFCHFLQMTGQKERATSILRESLEAKVEAFGD  
 FSPEVAETYRLLGGADLAQGNHSGARKLKKLQIQTLTYGPQDKRTLATQQAMGMLSTAPKVASKPRQA  
 SKAKVAFCTSIPODILLGKARPGTTAD

**TRTRPLE** – GFP Tag – V

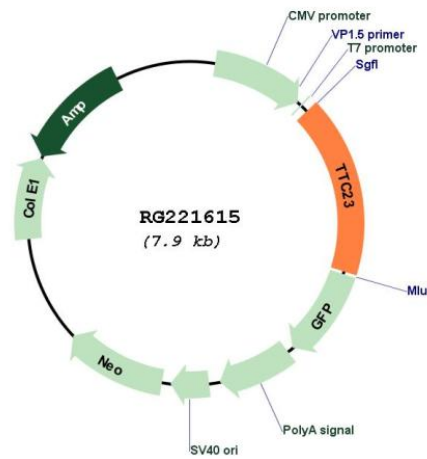
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001040657

ORF Size: 1341 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.

<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>	<u><a href="#">NM_001040657.1</a></u> , <u><a href="#">NP_001035747.1</a></u>
<b>RefSeq Size:</b>	3440 bp
<b>RefSeq ORF:</b>	1343 bp
<b>Locus ID:</b>	64927
<b>Cytogenetics:</b>	15q26.3
<b>Gene Summary:</b>	Participates positively in the ciliary Hedgehog (Hh) signaling.[UniProtKB/Swiss-Prot Function]