

## Product datasheet for **RG201194**

### GET3 (NM\_004317) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GET3 (NM_004317) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GET3
Synonyms:	ARSA-I; ARSA1; ASNA-I; ASNA1; TRC40
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201194 representing NM_004317 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGCAGGGGTGGCCGGTGGGGGTTGAGGCAGAGGAGTTCGAAGATGCTCCTGATGTGGAGCCGC  
TGGAGCCTACACTTAGCAACATCATCGAGCAGCGCAGCCTGAAGTGGATCTTCGTCGGGGCAAGGGTGG  
TGTGGGCAAGACCACCTGCAGCTGCAGCCTGGCAGTCCAGCTCTCAAGGGCGTGAGAGTGTCTGATC  
ATCTCCACAGACCAGCACACAACATCTCAGATGCTTTTGACCAGAAGTCTCAAAGGTGCCTACCAAGG  
TCAAAGGCTATGACAACCTCTTTGCTATGGAGATTGACCCAGCCTGGGCGTGGCGGAGCTGCCTGACGA  
GTTCTTCGAGGAGGACAACATGCTGAGCATGGGCAAGAAGATGATGCAGGAGGCCATGAGCGCATTCCC  
GGCATCGATGAGGCCATGAGCTATGCCGAGGTCATGAGGCTGGTGAAGGGCATGAACTTCTCGGTGGTGG  
TATTTGACACGGCACCCACGGGCCACACCTGAGGCTGCTCAACTTCCCCACCATCGTGGAGCGGGGCT  
GGGCCGGCTTAGCAGATCAAGAACCAGATCAGCCCTTTCATCTCACAGATGTGCAACATGCTGGGCCTG  
GGGACATGAACGCAGACCAGCTGGCCTCAAGCTGGAGGAGACGCTGCCCGTATCCGCTCAGTCAGCG  
AACAGTCAAGGACCCTGAGCAGACAACCTTTCATCTGCGTATGCATTGCTGAGTTCCTGTCCCTGTATGA  
GACAGAGAGGCTGATCCAGGAGCTGGCCAAGTGAAGATTGACACACACAATAAATTGTCAACCAGCTC  
GTCTTCCCCGACCCGAGAAGCCCTGCAAGATGTGTGAGGCCCGTCAAGAATCCAGGCCAAGTATCTGG  
ACCAGATGGAGGACCTGTATGAAGACTTCCACATCGTGAAGCTGCCGCTGTTACCCCATGAGGTGCCGGG  
GGCAGACAAGGTCAACACCTTCTCGGCCCTCCTCCTGGAGCCCTACAAGCCCCCAGTGCCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG201194 representing NM\_004317  
 Red=Cloning site Green=Tags(s)

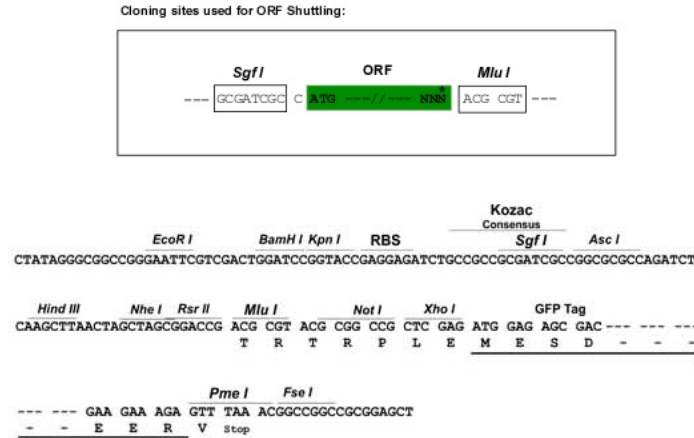
MAAGVAGWGVEAEFEDAPDVEPLEPTLSNIEQRSLKWIFVGGKGGVGTTCSCSLAVQLSKGRESVLI  
 ISTDPAHNI SDAFDQKF SKVPTKVKGYDNL FAMEIDPSLGV AELPDEFF EEDNML SMGKMMQEAMSAFP  
 GIDEAMSYAEVMRLVKGMNFSVVVFD TAPTGH LRLNFP TIVERGLGR LMQIKNQISPFISQMCNMLGL  
 GDMNADQLASKLEETLPVIRSVSEQFKDPEQTTFCVCI AEFLSLYETERLIQELAKCKIDTHNIIVNQL  
 VFPDPEKPCMKCEARHKIQAKYLDQMEDLYEDFHIVKLP LLPHEVRGADKVNTFSALLLEPYKPPSAQ

TRTRPLE - GFP Tag - V

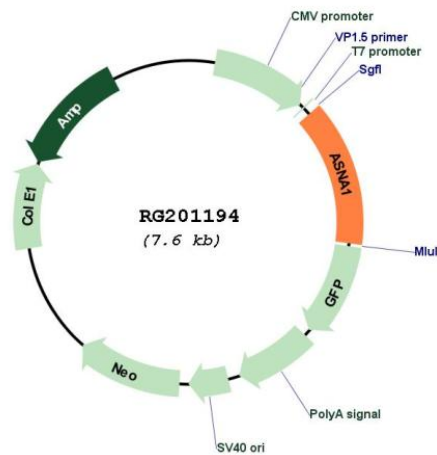
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_004317

**ORF Size:** 1044 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_004317.4</a>
<b>RefSeq Size:</b>	1298 bp
<b>RefSeq ORF:</b>	1047 bp
<b>Locus ID:</b>	439
<b>UniProt ID:</b>	<a href="#">O43681</a>
<b>Cytogenetics:</b>	19p13.13
<b>Domains:</b>	ArsA_ATPase
<b>Gene Summary:</b>	This gene represents the human homolog of the bacterial arsA gene, encoding the arsenite-stimulated ATPase component of the arsenite transporter responsible for resistance to arsenicals. This protein is also a central component of a transmembrane domain (TMD) recognition complex (TRC) that is involved in the post-translational delivery of tail-anchored (TA) proteins from the cytosol to the endoplasmic reticulum (ER). It recognizes and selectively binds the TMD of TA proteins in the cytosol, and delivers them to the ER for insertion. [provided by RefSeq, Oct 2011]