

## Product datasheet for **SC317543**

### GET3 (NM\_004317) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** GET3 (NM\_004317) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** GET3  
**Synonyms:** ARSA-I; ARSA1; ASNA-I; ASNA1; TRC40  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >SC317543 representing NM\_004317.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGCGGCAGGGGTGGCCGGTGGGGGTTGAGGCAGAGGAGTTCGAAGATGCTCCTGATGTGGAGCCG
CTGGAGCCTACACTTAGCAACATCATCGAGCAGCGCAGCCTGAAGTGGATCTTCGTCGGGGGCAAGGGT
GGTGTGGGCAAGACCACCTGCAGCTGCAGCTGGCAGTCCAGCTCTCAAGGGCGTGAGAGTGTCTG
ATCATCTCCACAGACCCAGCACACAACATCTCAGATGCTTTTGACCAGAAGTTCTCAAAGGTGCCTACC
AAGGTCAAAGGCTATGACAACCTCTTTGCTATGGAGATTGACCCAGCCTGGGCGTGGCGGAGCTGCCT
GACGAGTCTTCGAGGAGACAACATGCTGAGCATGGGCAAGAAGATGATGCAGGAGCCATGAGCGCA
TTTCCCGCATCGATGAGGCCATGAGCTATGCCGAGGTCATGAGGCTGGTGAAGGGCATGAACCTCTCG
GTGGTGGTATTTGACACGGCACCCACGGGCCACACCCTGAGGCTGCTCAACTTCCCACCATCGTGGAG
CGGGGCCCTGGGCCGGCTTATGCAGATCAAGAACCAGATCAGCCCTTTCATCTCACAGATGTGCAACATG
CTGGGCCCTGGGGACATGAACGCAGACCAGCTGGCCTCCAAGCTGGAGGAGACGCTGCCCGTCATCCGC
TCAGTCAGCGAACAGTTCAAGGACCCTGAGCAGACAACTTTCATCTGCGTATGCATTGCTGAGTTCTG
TCCCTGTATGAGACAGAGAGGCTGATCCAGGAGCTGGCCAAGTGAAGATTGACACACACAATAAAT
GTCAACCAGCTCGTCTTCCCGACCCCGAGAAGCCCTGCAAGATGTGTGAGGCCCGTCACAAGATCCAG
GCCAAGTATCTGGACCAGATGGAGACCTGTATGAAGACTTCCACATCGTGAAGCTGCCGCTGTTACCC
CATGAGGTGCGGGGGCAGACAAGGTCAACACCTTCTCGGCCCTCTCCTGGAGCCCTACAAGCCCCC
AGTGCCCAAGTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_004317



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<b>Insert Size:</b>	1047 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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_004317.3</a>
<b>RefSeq Size:</b>	1332 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>MW:</b>	38.8 kDa
<b>Gene Summary:</b>	<p>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]</p>