

## Product datasheet for **SC108403**

### ER81 (ETV1) (NM\_004956) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ER81 (ETV1) (NM_004956) Human Untagged Clone
Tag:	Tag Free
Symbol:	ER81
Synonyms:	ER81
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

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>OriGene sequence for NM_004956 edited
GAATTCGGCACGAGGCCTCGTGC CGAATTCGGCACGAGGCTTTCGCCTAGCGTGGCCTTC
AGGTTGATAGAAGTCCAGATCCTGAGGAAATCTCCAGCTAAATGCCTAAAAATATAAAAC
TGAGCTGAGATTTGCGAAGAGCAGCAGCATGGATGGATTTATGACCAGCAAGTGCCTTA
CATGGTCACCAATAGTCAGCGTGGGAGAAATTGTAACGAGAAACCAACAAATGTCAGGAA
AAGAAAATTCATTAACAGAGATCTGGCTCATGATTCAGAAGAACTCTTTCAAGATCTAAG
TCAATTACAGGAAACATGGCTTGCAGAAGCTCAGGTACCTGACAATGATGAGCAGTTTGT
ACCAGACTATCAGGCTGAAAGTTTGGCTTTTCATGGCCTGCCACTGAAAAATCAAGAAAGA
ACCCACAGTCCATGTTTCAAGAAATCAGCTCTGCCTGCAGTCAAGAACAGCCCTTTAAATT
CAGCTATGGAGAAAAGTGCCTGTACAATGTCAGTGCCTATGATCAGAAGCCACAAGTGGG
AATGAGGCCCTCAACCCCCCACACCTCCAGCAGCCAGTGTCCCACTGCATCATGC
ATCTCAAACCTCAACTCATACCCGAAACCTGACCGGGCCTTCCAGCTCACCTCCCTCC
ATCGCAGTCCATACCAGATAGCAGCTACCCATGGACCACAGATTTGCCGCCAGCTTTC
TGAACCCTGTAACCTCTTCTCCTTTGCCGACGATGCCAAGGGAAGGACGTCTATGTA
CCAAGCCAGATGTCTGAGCCAAACATCCCCTTCCACCACAAGGCTTTAAGCAGGAGTA
CCACGACCAGTGTATGAACACAACACCATGGTTGGCAGTGCAGCCAGCCAAAGCTTTCC
CCCTCCTCTGATGATTAACAGGAACCCAGAGATTTTGCATATGACTCAGAAGTGCCCTAG
CTGCCACTCCATTTATATGAGGCAAGAAGGCTTCTGGCTCATCCAGCAGAACGAGAAGG
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GCGAGGATCACTTCAGCTCTGGCAGTTTTTGGTAGCTCTTCTGGATGACCTTCAAATTC
TCATTTTATTGCCTGGACTGGTCGAGGCATGGAATTTAACTGATTGAGCCTGAAGAGGT
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CAACGAAGGCTACGTGTATTAACACAAGTGACAGTCAAGCAGGGCGTTTTTGGCCTTTTC
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AACAGGAAGCTAATGGGTGAATGGGCAGAGGGATTTGGGGATTACTTTTTACTTAGGCTT
GGGATGGGGTCCACAAGTTTTGAGTATGATGAACTATATCATGTCTGTTTGATTTTCAT
AACACATAAGATAATGTTTATTTTATCGGGGTATCTATGGTACAGTTAATTTACAGTTG
TGTAATATCCACTTGGAGACTATTTGCCTTGGGCATTTTCCCTGTCAATTTATGAGTCTC
TGCAGGTGTACAAAAAACCCCAATCXXXXXXXXXXXXXXXXXXXXXXXXXXTCATTTCT
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TGTTTTGCTGTTTAAACGTAGTGACTCACTGAACTAAATACATAATTGACCAACATTAAG
TGTATTTCCAATACAGAAGGGTTGAAAAATTACATTATAAACTCTTTTAAAAATGTAT
CTAAAATTTTTAAGTTCTGTTTGGATTCCACTTTTTGGTTGAGTTTTTATGTTTTTGT
TTCAGGTAGATTAATAAATCTGGCAGCTGATTTCTGAAAAAAAAAAAAAAAAAACTCGA
C
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_004956 unedited  
 GGGGGCGCCGNCNNTTCTCTCCNNNGGGGTTTCAATTTGTNATACGACTTACTATA  
 GGCGGCCGCGAATTCGGCACGAGGCCTCGTGCCGAATTCGGCACGAGGCTTTCGCCTAGC  
 GTGGCCTTCAGTTGATAGAAGTCCAGATCCTGAGGAAATCTCCAGCTAAATGCTCAAAA  
 TATAAAAAGTACGCTGAGATTTGCGAAGAGCAGCAGCATGGATGGATTTATGACCAGCA  
 AGTGCCTTACATGGTCACCAATAGTCAGCGTGGGAGAAATGTAACGAGAAAACCAACAAA  
 TGTCAGGAAAAGAAAATTCATTAACAGAGATCTGGCTCATGATTCAGAAGAACTTTTCA  
 AGATCTAAGTCAATTACAGGAAACATGGCTTGCGAAGCTCAGGTACCTGACAATGATGA  
 GCAGTTTGTACCAGACTATCAGGCTGAAAAGTTGGCTTTTCATGGCCTGCCACTGAAAAAT  
 CAAGAAAGAACCCACAGTCCATGTTTCAGAAATCAGCTCTGCCTGCAGTCAAGAACAGCC  
 CTTTAAATTCAGCTATGGAGAAAAGTGCCTGTACAATGTCAGTGCCTATGATCAGAAGCC  
 ACAAGTGGGAATGAGGCCCTNCAACNCNCCACACCATCCAGCACGCCAGTGTCCCACT  
 GCATCATGCATCTCCAACTCAACTCATACACCGAAACCTGACCGGGCCTTNCCAGCTCA  
 CCTNCTTTCATCGCAGTCCATACCAGATAGCAGCTACCCATGGACCCACAGATTCGCCG  
 CCAGCNTTCTGAACCCCTGACTNCTTTCTCCTTTGCCGACGATGCCANGGGAAGGACG  
 TCCATGTACCCAGCCAGATGTCTGAGCCAAACATCCCCTTCCACCACAGGCCTTAGC  
 AGGAGTCCCACGCCCATGTATGACACCACACCATGGTTGCAGGGCGGCCGCAAAGCTT  
 TTCCTCCTGATGATTAACAGGAACCCNAGATTTGCATTGACTCAAAGCCTAA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_004956 unedited  
 CAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTGCAGAAATAGCTGCCAGATTTATTAAT  
 CTACCTGAAAACAAAAACATAAAAACTCAACCAAAAAGTGAATCAAAACAGAATTTAA  
 AAATTTTAGATACATTTTCAAAAAGAGTTATAATGTAATATTTTCAACCCTTCTGTATT  
 GGAAATACACTTAATGTTGGTCAATTATGTATTTAGTTCAGTGAAGTCACTACGTTAAAC  
 AGCAAAACATATAGTTTGTCTTAAATATTATATAACTAATACCATTTCTGCCATTGTTT  
 TCTTGTGATAACGTTAGCATGGCCCAATTTCTCCTCACTGACTGACTAAAAGTACTAT  
 TAAAAAGAAGAAAAGGAGAAAAGAGAAAAAGAAAAAGAAACAAAATGAATCCTCA  
 ATACAGTTTTTCATTGAGAATATATTTTAAAGACTCACTTAAATTTTCTCCTTCAATTTCA  
 CCAAATCTCAATTATATATCTCAATTTCTTTTCCAATAAACTTCACTGAATATTTTA  
 ACATCTGTTTTTATTCTAAGTCTGTAGATGGCCACATAAGCATAGTGGGAGAAAAGGT  
 TCTGATTTTTTAAGGCATAGTTTTCTTTTTTAGGCCAAAATGGCCAAAATAATACATGA  
 TGTATATGAACAANCATATTGAAATCGCAGGTTACATACATATTTTGAATTTGGAGTAC  
 TTTTTGTAGGATTAATGTGAAGAGTAGCAATTTTGGGTGTTGGGTTTCNTTGATAACT  
 GCTCACTTAAAGAATGAGCTGTGATCTGTGTANTTNTGAAAATGGGTANCTGNNGGGATC  
 ATCTTTAANCATCTTTTCATGCTCANACGAAATGCTTTACAATAGGTTATTTTGACTTTG  
 NGTTAGAATTTTTTTTTTTTGCCTTTGCATAAACCTTAAAAAGTGTCTTCTGGATATAT  
 GATGATGAACAAATCTGCCTTGCTGATCTTACGACTTTCAAATCTTTCCCTT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_004956

**Insert Size:**

4700 bp

**OTI Disclaimer:**

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).

**Components:**

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).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

**RefSeq:** [NM\\_004956.3](#), [NP\\_004947.2](#)

**RefSeq Size:** 6158 bp

**RefSeq ORF:** 1434 bp

**Locus ID:** 2115

**UniProt ID:** [P50549](#)

**Cytogenetics:** 7p21.2

**Domains:** ETS, ETS\_PEA3\_N

**Protein Families:** ES Cell Differentiation/IPS, Transcription Factors

**Gene Summary:** This gene encodes a member of the ETS (E twenty-six) family of transcription factors. The ETS proteins regulate many target genes that modulate biological processes like cell growth, angiogenesis, migration, proliferation and differentiation. All ETS proteins contain an ETS DNA-binding domain that binds to DNA sequences containing the consensus 5'-CGGA[AT]-3'. The protein encoded by this gene contains a conserved short acidic transactivation domain (TAD) in the N-terminal region, in addition to the ETS DNA-binding domain in the C-terminal region. This gene is involved in chromosomal translocations, which result in multiple fusion proteins including EWS-ETV1 in Ewing sarcoma and at least 10 ETV1 partners (see PMID: 19657377, Table 1) in prostate cancer. In addition to chromosomal rearrangement, this gene is overexpressed in prostate cancer, melanoma and gastrointestinal stromal tumor. Multiple alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2016]

**Transcript Variant:** This variant (1) represents the longest transcript and encodes the longest isoform (a). This isoform contains the N-terminal TAD. **Sequence Note:** This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.