

Product datasheet for **RC228369**

ER81 (ETV1) (NM_001163147) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ER81 (ETV1) (NM_001163147) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ER81
Synonyms:	ER81
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RC228369 representing NM_001163147
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATGGATTTTATGACCAGCAAGTGCCTTACATGGTCACCAATAGTCAGCGTGGGAGAAATTGTAACG
AGAAACCAACAAATGTCAGGAAAAGAAAATTCATTAACAGAGATCTGGCTCATGATTGAGAAGAACTCTT
TCAAGATCTAAGTCAATTACAGGAAACATGGCTTGCAGAAGCTCAGGTACCTGACAATGATGAGCAGTTT
GTACCAGACTATCAGGCTGAAAGTTTGGCTTTTCATGGCCTGCCACTGAAAATCAAGAAAGAACCCACACA
GTCCATGTTTCAAGAAATCAGCTCTGCCTGCAGTCAAGAACAGCCCTTTAAATTCAGCTATGGAGAAAAGTG
CCTGTACAATGTCAGTGCCTATGATCAGAAGCCACAAGTGGGAATGAGGCCCTCAACCCCCCACACCA
TCCAGCACGCCAGTGTCCCCTGCATCATGCATCTCCAACTCAACTCATAACCGAAACCTGACCGGG
CCTTCCCAGCTCACCTCCCTCCATCGCAGTCCATACCAGATAGCAGCTACCCATGGACCACAGATTTTCG
CGCCAGCTTTTGAACCCTGTAACCTCTTCTCCTTTGCCGACGATGCCAAGGGAAGGACGTCCTATG
TACCAACGCCAGATGTCTGAGCCAAACATCCCCTTCCCACCACAAGGCTTTAAGCAGGAGTACCACGACC
CAGTGTATGAACACAACACCATGGTTGGCAGTGCAGCCAGCCAAAGCTTTCCCTCTCTGATGATTAA
ACAGGAACCCAGAGATTTTGCATATGACTCAGGCTGTATGTTGAAAAGGGCCCCAGGCAGTTTTATGAT
GACACCTGTGTTGCCAGAAAATTCGATGGAGACATCAACAAGAGCCAGGAATGTATCGGGAAGGAC
CCACATACCAACGGCGAGGATCACTTCAGCTCTGGCAGTTTTTGGTAGCTTCTTGGATGACCTTCAA
TTCTCATTTTATGCTGGACTGGTGCAGGCATGGAATTTAACTGATTGAGCCTGAAGAGGTGGCCGA
CGTTGGGCATTGAGAAAACAGGCCAGCTATGAACTATGATAAAGTTAGCCGTTCACTCCGCTATTACT
ATGAGAAAAGGAATTATGCAAAAAGTGGCTGGAGAGAGATATGTCTACAAGTTTGTGTGATCCAGAAGC
CCTTTTCTCCATGGCCTTTCCAGATAATCAGCGTCCACTGCTGAAGACAGACATGGAACGTCACATCAAC
GAGGAGGACACAGTGCCTCTTCTCACTTTGATGAGAGCATGGCCTACATGCCGGAAGGGGCTGCTGCA
ACCCACCCCTACAACGAAGGCTACGTGTAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC228369 representing NM_001163147
Red=Cloning site Green=Tags(s)

MDGFYDQQVPMVTNSQRGRNCNEKPTNVRKRKFINRDLAHDSEELFQDLSQLQETWLAEAVPDNDEQF
VPDYQAEFLAFHGLPLKIKKEPHSPCSEISSACSQEQPFKFSYGEKCLYNVSAYDQKQVGMRPSNPPTP
SSTPVSPLHHASPNSTHTPKPDRAFPAPHLPPSQSIPDSSYPMDHRFRRLSEPCNSFPPLPTMPREGRPM
YQRQMSEPNIFFPPQGFKQEYHDPVYEHNTMVGSAASQSFPPPLMIKQEPDFAYDSGCMFEKGPRQFYD
DTCVVPEKFDGDIKQEPGMYREGPTYQRRGSLQLWQFLVALLDDPSNSHFIAWTGRGMEFKLIEPEEVAR
RWGIQKNRPAMNYDKLSRSLRYYYEKGIMQKVAGERYVYKFCVCDPEALFSMAFPDNQRPLLKTDMERHIN
EEDTVPLSHFDESMAYMPEGGCCNPHPYNEGYVY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8061_b02.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001163147

ORF Size: 1362 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.

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_001163147.1](#), [NP_001156619.1](#)

RefSeq ORF: 1365 bp

Locus ID: 2115

UniProt ID: [P50549](#)

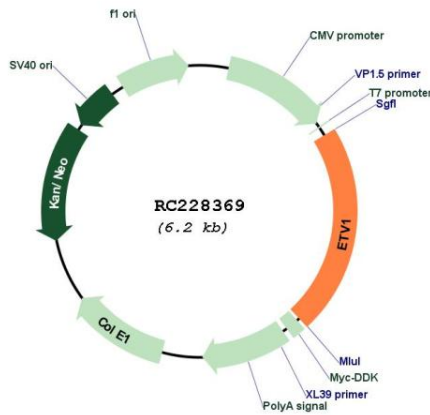
Cytogenetics: 7p21.2

Protein Families: ES Cell Differentiation/IPS, Transcription Factors

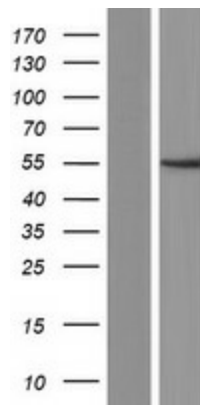
MW: 52.3 kDa

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]

Product images:



Circular map for RC228369



Western blot validation of overexpression lysate (Cat# [LY431397]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228369 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).