

Product datasheet for TP315203

ETS1 (NM_005238) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human v-ets erythroblastosis virus E26 oncogene homolog 1 (avian) (ETS1), transcript variant 2, 20 µg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC215203 representing NM_005238
Red=Cloning site Green=Tags(s)

MKAAVDLKPTLTIKTEKVDLELFPSPDMECADVPLLTPSSKEMMSQALKATFSGFTKEQQRLGIPKDPR
QWTETHVRDWMWAVNEFSLKGVDFQKFCMNGAALCALGKDCFLELAPDFVGDILWEHLEILQKEDVKPY
QVNGVNPAYPESRYTSDYFISYGIEHAQCVPPSEFSEPSFITESYQTLHPISSEELLSLKYENDYPSVIL
RDPLQDTLQNDYFAIKQEVTPDNMCMGRTSRGLGGQDSFESIESYDSCDRLTQSWSSQSSFNSLQRV
PSYDSFDSEDPAAALPNHKPKGTFKDYVRDRADLNKDKPVIPAAALAGYTGSGPIQLWQFLELLTDKSC
QSFISWTGDGWFKLSDPDEVARRWGRKKNPKMNYEKLSRGLRYYYDKNIIHKTAGKRYVYRFVCDLQS
LLGYTPEELHAMLVDKPDADA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 50.2 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

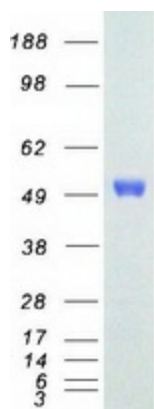
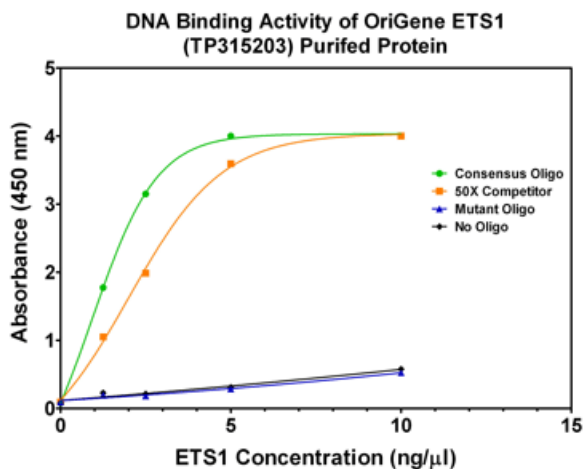
Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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Bioactivity:	ETS1 Activity Verified in a DNA-binding Assay: ETS1 (TP315203) activity was measured in a colorimetric DNA-binding assay. Purified ETS1 protein containing a C-terminal MYC/DDK tag was incubated with biotinylated double-stranded oligonucleotide containing the ETS1 consensus DNA-binding sequence. Following incubation, the reaction was transferred to a streptavidin-coated microplate to allow capture of the protein-DNA complex. After washing, the captured protein was detected with an anti-DDK peroxidase conjugate and colorimetric signal detection with TMB. Specificity of the protein-DNA interaction was confirmed by carrying out the binding in the presence of an unlabeled competitor oligonucleotide and by comparison to binding to an oligonucleotide containing a mutation in the consensus binding sequence.
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_005229
Locus ID:	2113
UniProt ID:	P14921
RefSeq Size:	5228
Cytogenetics:	11q24.3
RefSeq ORF:	1323
Synonyms:	c-ets-1; ETS-1; EWSR2; p54
Summary:	This gene encodes a member of the ETS family of transcription factors, which are defined by the presence of a conserved ETS DNA-binding domain that recognizes the core consensus DNA sequence GGAA/T in target genes. These proteins function either as transcriptional activators or repressors of numerous genes, and are involved in stem cell development, cell senescence and death, and tumorigenesis. Alternatively spliced transcript variants encoding different isoforms have been described for this gene.[provided by RefSeq, Jul 2011]
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Dorso-ventral axis formation, Pathways in cancer, Renal cell carcinoma

Product images:



Coomassie blue staining of purified ETS1 protein (Cat# TP315203). The protein was produced from HEK293T cells transfected with ETS1 cDNA clone (Cat# [RC215203]) using MegaTran 2.0 (Cat# [TT210002]).