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Product datasheet for SC125359

ETS1 (NM_005238) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ETS1 (NM_005238) Human Untagged Clone
Tag:	Tag Free
Symbol:	ETS1
Synonyms:	c-ets-1; ETS-1; EWSR2; p54
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene ORF within SC125359 sequence for NM_005238 edited (data generated by NextGen Sequencing)

ATGAAGGCGGCCGTCGATCTCAAGCCGACTCTCACCATCATCAAGACGGAAAAAGTCGAT
CTGGAGCTTTTCCCCTCCCCGGATATGGAATGTGCAGATGTCCCACTATTAACTCCAAGC
AGCAAAGAAATGATGTCTCAAGCATTAAAAGCTACTTTCAGTGGTTTCACTAAAGAACAG
CAACGACTGGGGATCCCAAAAGACCCCCGGCAGTGGACAGAAACCCATGTTCGGGACTGG
GTGATGTGGGCTGTGAATGAATTCAGCCTGAAAGGTGTAGACTTCCAGAAGTTCTGTATG
AATGGAGCAGCCCTCTGCGCCCTGGGTAAAGACTGCTTTCTCGAGCTGGCCCCAGACTTT
GTTGGGGACATCTTATGGGAACATCTAGAGATCCTGCAGAAAGAGGATGTGAAACCATAT
CAAGTTAATGGAGTCAACCCAGCCTATCCAGAATCCCGCTATACCTCGGATTACTTCATT
AGCTATGGTATTGAGCATGCCCAGTGTGTTCCACCATCGGAGTTCTCAGAGCCCAGCTTC
ATCACAGAGTCCTATCAGACGCTCCATCCCATCAGCTCGGAAGAGCTCCTCTCCCTCAAG
TATGAGAATGACTACCCCTCGGTCATTCTCCGAGACCCTCTCCAGACAGACACCTTGCAG
AATGACTACTTTGCTATCAAACAAGAAGTCGTCACCCCAGACAACATGTGCATGGGGAGG
ACCAGTCGTGGTAAACTCGGGGGCCAGGACTCTTTTGAAAGCATAGAGAGCTACGATAGT
TGTGATCGCCTCACCCAGTCCTGGAGCAGCCAGTCATCTTTCAACAGCCTGCAGCGTGTT
CCCTCCTATGACAGCTTCGACTCAGAGGACTATCCGGCTGCCCTGCCCAACCACAAGCCC
AAGGGCACCTTCAAGGACTATGTGCGGGACCGTGCTGACCTCAATAAGGACAAGCCTGTC
ATTCCTGCTGCTGCCCTAGCTGGCTACACAGGCAGTGGACCAATCCAGCTGTGGCAGTTT
CTTCTGGAATTACTCACTGATAAATCCTGTCAGTCTTTTATCAGCTGGACAGGAGATGGC
TGGGAATTCAAACTTTCTGACCCAGATGAGGTGGCCAGGAGATGGGGAAAGAGGAAAAAC
AAACCTAAGATGAATTATGAGAAACTGAGCCGTGGCCTACGCTACTATTACGACAAAAAC
ATCATCCACAAGACAGCGGGGAAACGCTACGTGTACCGCTTTGTGTGTGACCTGCAGAGC
CTGCTGGGGTACACCCCTGAGGAGCTGCACGCCATGCTGGACGTCAAGCCAGATGCCGAC
GAGTGA

Clone variation with respect to NM_005238.3
1011 a=>g

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005238 unedited
CCGCGAATTCGGCACGAGCGGGAATTTGAGATTTTTGGGAAGAAAGTCGGATTTCCCCCG
TCCCCTTCCCCCTGTTACTAATCCTCATTAAAAAGAAAAACAACAGTAACTGCAAACTTG
CTACCATCCCGTACGTCCCCCACTCCTGGCACCATGAAGGCGGCCGTCGATCTCAAGCCG
ACTCTCACCATCATCAAGACGGAAAAAGTCGATCTGGAGCTTTTCCCCTCCCCGGATATG
GAATGTGCAGATGTCCCACTATTAACTCCAAGCAGCAAAGAAATGATGTCTCAAGCATTA
AAAGCTACTTTCAGTGGTTTCACTAAAGAACAGCAACGACTGGGGATCCCAAAAGACCCC
CGGCAGTGGACAGAAACCCATGTTCGGGACTGGGTGATGTGGGCTGTGAATGAATTCAGC
CTGAAAGGTGTAGACTTCCAGAAGTTCTGTATGAATGGAGCAGCCCTCTGCGCCCTGGGT
AAAGACTGCTTTCTCGAGCTGGCCCCAGACTTTGTTGGGGACATCTTATGGGAACATCTA
GAGATCCTGCAGAAAGAGGATGTGAAACCATATCAAGTTAATGGAGTCAACCCAGCCTAT
CCAGAATCCCGCTATACCTCGGATTACTTCATTAGCTATGGTATTGAGCATGCCCCAGTG
TGNTCCACCATCGGANGTCTCAGAGCCCAGCTTCATCACAGAGTCCTATCAGACGCTCCA
TNCCATCAGCTCGGAAGAGCTCCTCTCCCTCAGTATGAG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005238 unedited
TATGACCGAGGCTGCAATCNAGGATNCNGAAAAATCCTTTTTTTTTTTTTTTTTTTTTGA
ATGAAATTCTTTGGTTTTAATTTCACACAGGTTAAAATACAATATGAAATCAGGCTACAG
TATATAAAAAACTCTCCAGCAAAATGATGTGCCAGCATCAGCTACTAAAATAAACAAACA
AAAAACTCCGCCATAAGAATTTTTTTGCATGGGGTGGATAAAAAACATCGACACTTACAT
CGCTACATCTCTAAGCTACCTCAGTTCTGATTTTTAAAAAGCACCTGCTTTTCCTTTTTT
TCATCTTACTTCTAAATTTTCAGCTTTTAAAAAATATAAATTATATGAAAATACAAGTTG
GAAAATAGTCAAACACAATATAACATCTTTTTCATCCCTATACTTCTCAGCTTAAAAAAA
AAGTATTCTTAAAAAAAAAAGTTCACTAACTGAGGCAGTATTCCTGATAATCCCATTTCA
ACATATATATTTCATATCTGGATATGCCCCCACCAATTCACGGTCTCTCGACAATTCCCT
CGACCGTAGGCCCGACGCCTTCCACCGCCCCCGACCCCTCCCCCCGCGGGATGGCACGCT
GAATACAGAAAGCGGCATCACATCCCCCCTCCGCCACCCCTCTATCGGGCCCCCCGCGCC
CGCCCCCCCCCACACCCCTCCCACGCCCTCCCGCCGCGGGTGTCCCCCCCCCCCTAACCG
CCGCAATCTATTCCCCCTCTATCCCCGCTCGCGCCCCTCCCCACGGTCAGCCGATCGAAC
AACCGGGTGGTCACCACGCGCGCCCGCCGCGCCGCCCTTTGTTCGTCCCCCACCCGTCCC
GTTCCCCGCCCACCACCTCCCCCCCCCGCCACCNGCCTACTATGTGACATTTCTTCCCCGC
CCCCCCCACACCTGGACCCCCATCTTATTTCGCTTCCCCCGTATCACAAATACAG

Restriction Sites: NotI-NotI

ACCN: NM_005238

Insert Size: 5410 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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

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_005238.2, NP_005229.1

RefSeq Size: 5228 bp

RefSeq ORF:	1326 bp
Locus ID:	2113
UniProt ID:	P14921
Cytogenetics:	11q24.3
Domains:	ETS, SAM_PNT
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Dorso-ventral axis formation, Pathways in cancer, Renal cell carcinoma
Gene 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] Transcript Variant: This variant (2) uses an alternate promoter, and differs in the 5' UTR and 5' coding region compared to variant 1. The resulting isoform (2, also known as Ets-1 p51) is shorter with a distinct N-terminus compared to isoform 1.