

Product datasheet for **RC208829**

ESX1 (NM_153448) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ESX1 (NM_153448) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ESX1
Synonyms:	ESX1L; ESXR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC208829 ORF sequence, **codon optimized**.
 Due to the complexity of NM_153448, the ORF clone is codon optimized for mammalian Expression.
 The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**GCGATCGCC**

ATGGAGAGCCTCAGAGGCTATACACATTCTGACATCGGCTACAGATCCCTTGGGGTGGGCGAGGACATTGAGGAGTTAACGATGAAAACTGACCGTTACCAGCTTGATGGCGCGAGGAGGGGAAGACGAAGAAAACACCGATCTAAGCCTGAATATGGGACGGAGGCCGAAAATAACGTTGGCACGGAAGGCTCCGTCCTCAAGTGACGACCAGGATCGCGAAGGAGGAGCGGGCATGAGCCGGAGCAGCAACAGGAGGAACCAACCCCTTACCAAGCCGAACAGCAACAGGAAGAACCACCACTGCTCGAACTGAAGCAGGAGCAGGAGGAACCTCCCCAGACCACCGTGGAAGGCCCAACAGCAGAGGGCCCTCAAACCGCCGAAGGGCCCCAGCCTCCAGAAAGGAAAAGAAGAAGAAGGACTGCATTCACACAGTTCCAGCTCCAAGAGCTGGAGAATTTTTTCGATGAGTCACAATACC CCGACGTCGTGGCTCGCGAACGGTTGGCTGCTCGCCTCAACCTCACAGAAGATCGCGTCCAAGTGTGGTCCAGAATCGGCGGGCTAAGTGGAACGAAACCAGAGAGTACTTATGCTCAGAAACACGGCAACTGCTGATCTGGCACATCCGCTGGACATGTTCTGGGCGGAGCCTACTATGCCGCCCTGCCCTTGACCCCGCACTTCCGTACATCTGGTACCACAGCTGCCAGGCCACCAGTTCGCCCGTCCCCCTATGCCACCTAGACCTCCCATGGTGGCCCATGCCCCCTAGGCCACCGATCGCCCAATGCCTCCGATGGCACCGGTCCCTCCCGGATCAGGATGGCTCCCGTCCCGGGGACCAAGGATGGCCCAAGTCCCGCCATGCCACCTATGGCCCCGGTACCACCTGGCCACCTATGGCCCCGTGCCACCGGTCCCCCGATGGCCCCGTGCCCTCCAGGACCACCAATGGCACGAGTACCGCTGGTCCACCTATGGCCCGCGTGCCACCTGGCCACCTATGGCTCCTTTGCCACCTGGACCCCATGGCTCCACTGCCCCCGGGCCCCCAATGGCGCCACTGCCTCCGGGGCTCCCATGGCTCACTTCCCGCTAGGAGCCATGTGCCTCATAAGGATTGGCTCCTGTCCATATAACTTGGGCACCTGTGATCAATAGTTACTACGCCTGCCCTTCTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208829 representing NM_153448
 Red=Cloning site Green=Tags(s)

MESLRGYTHSDIGYRSLAVGEDIEEVNDEKLTVTSLMARGGEDEENTRSKPEYGTAEENVGTEGSVPSDQDREGGGGHEPEQQQEPPPLTKPEQQQEPPLELQEQEPPQTVEGPQPAEGPQTAEGPQPPERKR RRRRTAFTQFQLQELENFDESQYDPVVARERLAARLNLTEDRVQVWFQNRRAKWKRNQRVLMRLNTATADLAHPLDMFLGGAYYAAPALDPALCVHLPVQLPRPPVLPVPPMPRPPMVPMPRPPPIAPMPMPVPPGSRMAPVPPGPRMAPVPPWPPMAPVPPWPPMAPVPTGPPMAPVPPGPPMARVPPGPPMARVPPGPPMAPLPPGPPMAPLPPGPPMAPLPPRSHVPHITGLAPVHITWAPVINSYYACPF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_153448

ORF Size: 1218 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_153448.1](#), [NM_153448.2](#), [NM_153448.3](#), [NP_703149.1](#)

RefSeq Size: 1495 bp

RefSeq ORF: 1221 bp

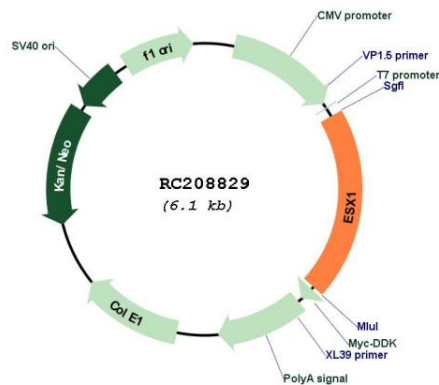
Locus ID: 80712

UniProt ID: [Q8N693](#)

Cytogenetics: Xq22.2

Protein Families:	Transcription Factors
MW:	44.3 kDa
Gene Summary:	This gene encodes a dual-function 65 kDa protein that undergoes proteolytic cleavage to produce a 45 kDa N-terminal fragment with a paired-like homeodomain and a 20 kDa C-terminal fragment with a proline-rich domain. The C-terminal fragment localizes to the cytoplasm while the N-terminal fragment localizes exclusively to the nucleus. In contrast to human, the mouse homolog has a novel PN/PF motif in the C-terminus and is paternally imprinted in placental tissue. This gene likely plays a role in placental development and spermatogenesis. [provided by RefSeq, Jan 2010]

Product images:



Circular map for RC208829