

## Product datasheet for **SC306953**

### Rex1 (ZFP42) (NM\_174900) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rex1 (ZFP42) (NM_174900) Human Untagged Clone
Tag:	Tag Free
Symbol:	ZFP42
Synonyms:	REX-1; REX1; zfp-42; ZNF754
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC306953 representing NM_174900. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGCCAGCAACTGAAGAAACGGGCAAAGACAAGACACCAGAAAGGCCTGGGTGGAAGAGCCCCCAGT
GGGGCTAAGCCCAGGCAAGGCAAGTCAAGCCAAGACCTGCAGGCGGAAATAGAACCTGTCAGCGCGGTG
TGGGCCTTATGTGATGGCTATGTGTGCTATGAGCCTGGCCCTCAGGCTCTCGGAGGGGATGATTTCTCA
GACTGTTACATAGAATGCGTCATAAGGGGTGAGTTTTCTCAACCCATCCTGGAAGAGGACTACTTTTT
GAGTCCTTGAATACCTAAAGAAAGGATCAGAACAACAGCTTTCTCAAAGGTTTTCGAAGCAAGCTCC
CTTGAATGTTCTTTGGAATACATGAAAAAGGGTAAAGAAAGAGCTTCCACAAAAGATAGTTGGAGAG
AATTTCGCTTGAGTATTCTGAGTACATGACAGGCAAGAAGCTTCCGCTGGAGGAATACCTGGCATTGAC
CTATCAGATCCTAAACAGCTCGCAGAATTTGCTAGAAAGAGCCCCCATAAATAAAGAATATGACAGT
CTGAGCGCAATCGCTTGTCTCAGAGTGGATGCACTAGGAAGTTGAGGAATAGAGCTGCCCTGAGAAAG
CATCTCCTCATTGATGGTCCCGAGACCAGTCTGTGCGGAATGTGGGAAAGCGTTTCGTTGAGAGCTCA
AACTAAAGAGACATTTCTGGTTCATACTGGAGAGAAGCCGTTTCGGTGCATTTTGAAGGGTGGCGGA
AAGCGCTTCTCTGACTTTAATTTGCGTACGCACGTGCGCATCCACACGGGGGAGAAACGTTTCGTG
TGTCCTTTCAAGGCTGCAACAGGAGGTTTATTCAGTCAAATAACCTGAAAGCCACATCCTAACGCAT
GCAAATACGAACAAGAATGAACAAGAGGGAAAGTAG
ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-MluI
Plasmid Map:	<input type="checkbox"/>
ACCN:	NM_174900



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<b>Insert Size:</b>	933 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_174900.4</a>
<b>RefSeq Size:</b>	2660 bp
<b>RefSeq ORF:</b>	933 bp
<b>Locus ID:</b>	132625
<b>UniProt ID:</b>	<a href="#">Q96MM3</a>
<b>Cytogenetics:</b>	4q35.2
<b>Protein Families:</b>	Adult stem cells, Embryonic stem cells, ES Cell Differentiation/IPS, Stem cell - Pluripotency
<b>MW:</b>	34.8 kDa
<b>Gene Summary:</b>	<p>Involved in the reprogramming of X-chromosome inactivation during the acquisition of pluripotency. Required for efficient elongation of TSIX, a non-coding RNA antisense to XIST. Binds DXPas34 enhancer within the TSIX promoter. Involved in ES cell self-renewal (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein. 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.</p>