

Product datasheet for **SC327936**

IHO1 (NM_178173) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IHO1 (NM_178173) Human Untagged Clone
Tag:	Tag Free
Symbol:	IHO1
Synonyms:	CCDC36; CT74; LELA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC327936 representing NM_178173.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGAATTTTAAATGTCTGGAATATCAAAGAGATGCTCAGTATTCTTCAGGCTCTGGGAACAAGAAGTCA
TCCAAGTGAATAATAATCAAAATGATTATTCAGTCTCAGTGATTCCAGTTCCTCTTTGGATCTCAG
TTCTGTCCAGAAAATTCAGAAACCCTATCAGCACCCCTGGACTTTGGTGCCCACTTGAGACATTCAAAA
CAGTCACAACAGAACTATCTGGAGGGTGAACCTAGCATTTTCAAAAGTACCAGACAAAGCCCCAGCTG
TTGCGAGGAGATATAAAGATGGAGTTTATTTCTCTCTCTTTGTAGTTGGAAAATCAAAAGGCCTC
TTGGAACAGTTTGGAGAGAAAAAGAAAGGGCAAAAGACAAATGTGACAGTGAGACTCTATACAATTT
GTTTCTAATGTTAGAGAAAGCATTCTCAGGTTGCAGACGTCTGTGAAAAGTCTGAGGACCATCTCAGT
TCAAGAAGCCAATCTATTTTGGATTCTTTGGAGACTGTGGCAAGACATTACAAGAGACTATACAGGCC
CAGAATGACCTGGTGTGTTGAGGCAGTCCAGGACAAAGGCAACATGGAGCAGGCCATCTTGAGATGAAG
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TTGGCCAGAGCCTCAATCTCACCAGGCAGGAAAAATACACCTCTGAGAAACAGTTTTATGGCAGGCC
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AACCATGGTTCAGCGTCCCAGGCCATAAGATTCCAGTGACAGGGACCTGGTTTCCAAGGAGCCTCA
CAGCTCACATCATTGGAGATAAACTTTCAACCAGCATTAAAGAATGCCTGCCAAAAATATCAAGCCCAA
AGTATGTTTTTGTGTGACCCACGTGAACATTTGGTGATTAAACAGAAAGATGGGACTGTAGAAATGCGG
GGGAAAGACAAGAAGCAGCAGCCAGGAAGGCCACAGGGCCACAGAGGCAGGCTCATAGCCAGCAAG
CAAAAACAAATCCCAATCCAGACCTGTAAATTCAAATATCAGAGTCTCAGCCTGCAATTTCT
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CAGGGAAGACTCTTGAGCTCAGCAGGTGCTCTTCCCAAGACAACTGGCTACTTTCCAGCAGTTCACAG
GGGGAACACCAGATGAGCTGGTTCAGTGACCTCAATCTCGGATGTTAGAGACCCCTCTATGCAAGGAG
GCAGGAAAGAATTGCTCTATGACCTGGGTTTTGATAGCAGTGATGATGATGGCTTCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_178173

Insert Size: 1785 bp

OTI Disclaimer: 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).

OTI Annotation: 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.

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:	<u>NM_178173.3</u>
RefSeq Size:	2994 bp
RefSeq ORF:	1785 bp
Locus ID:	339834
UniProt ID:	<u>Q8IYA8</u>
Cytogenetics:	3p21.31
MW:	66.3 kDa
Gene Summary:	Required for DNA double-strand breaks (DSBs) formation in unsynapsed regions during meiotic recombination. Probably acts by forming a complex with MEI4 and REC114, which activates DSBs formation in unsynapsed regions, an essential step to ensure completion of synapsis. Not required for HORMAD1 functions in pairing-independent synaptonemal complex formation, ATR recruitment to unsynapsed axes, meiotic silencing of unsynapsed chromatin (MSUC) or meiotic surveillance.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein.