

Product datasheet for **SC126356**

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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_178173 edited
 GCTTTTCCTTCATCTCCAAAGTCTCTAAACTGACAGGGTCTCATTCTGTGCGCCAGGCT
 GGAGTGTAGTGACGCGATCTCGGCTCACTGCAACCTCTACCTCCCAGGTTCAAACGATCC
 TCCCGCCTCAGCCTCCGAGTAGCTGGGACCACAGGGGCCCGGTTTCGATGTCCCCATCTGC
 CCACGGCGCCTCTCGTGCCAGCTGCTCCGCCTGTCTGCCCTTGCTCAGACCACCCAAGT
 ATCATCTGTGCTCTGGCCCTGGCCACCAGTTCACCCCACATGCTGTCTCACAGGTGG
 GCGCTTGCCATTCTGGGGACCAGGGCCTCCTTGTCTGGTTCATACACAGTGGAGTGTAG
 GTCGAGCGACAAGTATAACTATAAGAAATGAATTTTAATGTCTGGAATATCAAAGAGATG
 CTCAGTATTCTTCAGGCTCTGGGAACAAGAAGTCATCCAAGTGAATAATAATCAAAT
 GATTATTCAGTCTCAGTGATTCCAGTTCCTCTTTGGATCTCAGTTCGTCCAGAAAAAT
 TCAGAAACCTATCAGCACCTTGGACTTTGGTGCCCACTTGAGACATTCAAAACAGTCA
 CAACAGAACTATCTGGAGGTGAACCTAGCATTTCACAAAGTACCAGACAAAGCCCCAG
 CTGTTCCGAGGAGATATAAAGATGGAGGTTTATTTCTCTCTCTTTGTCAGTTGAAAAA
 TCAAAAGGCTCTTGGAACAGTTTGAGGAGAAAAAGAAAGGGCAAAAGACAAATGTGAC
 AGTGAGACTCTATACACTTTGTTTCTAATGTTAGAGAAAGCATTCTCAGTTGCAGACG
 TCTGTGAAAAAGTCTGAGGACCATCTCAGTTCAAGAAGCCAATCTATTTTGGATTCTTTG
 GAGACTGTGGCCAAGACATTACAAGAGACTATACAGGCCAGAATGACCTGGTGTGAG
 GCAGTCCAGGACAAAGGCAACATGGAGCAGGCCATCCTTGAGATGAAGAAAAGATTTGAA
 GCTAGACAAGGAGAGTTTATAGAAATGAAGTCCAACCTGAAGCACCTTGAAGTTTATGTT
 GCTCAGCAGAGTCAGGAATTCAGCAGCTGTGTGAGCAGCTAGGCCAGCTGAATGTGCC
 AGTGTCTAGCAGAGCTGAAGAGATTGATCTCAGTGCCTCCAGTGAAAGACAGTGCTTCT
 CAGACGTGCCACCTTTGGCCAGAGCCTCAATCTCACCAGGCAGGAAAAATACACCTCT
 GAGAAACCAAGTTTATGGCAGGCCAGGCCCTCCCTGCTGCATGGAATCCTGGTATGGGC
 TCCTACAGCCTGGAGAATTTGATGTCTGGGGTGAAGGAGCAAAAGATGATGATCTCCAA
 GAAGAGGCTGCACTGCCAGCATTGGGTCCCATGAAAGAAATAGGCATGTAAAGGACAAG
 GTGGTGCAGACTAACTGCAAGAACTGGGCTGTTACTAAAACAGGTGCCAAGAACCATGGT
 TCCAGCGTCCCAGGCCATAAGATTCCCAGTGACAGGGACCTGGTTTCCCAAGGAGCCTCA
 CAGCTCACATCATTGGAGATAAACTTTTCAACCAGCATTGAAGATGCCTGCCAAAAATAT
 CAAGCCCCAAGTATGTTTTGTGTGACCCACGTGAACATTTGGTGATTAACAGAAAGAT
 GGGACTGTAGAAATGCGGGGAAAGACAAGAAGCAGCAGCCAGGAAGGCCACAGGGCC
 CACAGAGGCAGGCTCATAGCCAGCAAGCAAAAACAAATCCAATCCAGACCTGTAATTC
 AATTCCAAATATCAGAGTCTCAGCCTGCAATTTCTGTCCCTCAAAGCCCCTTCTGGGG
 CAGCAGGAACCCCGTGCTCAGCCTCTGCATCTGCAGTGTCCCAGGAGCCCAGAAAAACCA
 GTCTGCCCTATTCTGGGAGGAACAGTCAATGCCAATAAGACAGTAAGGGCAGTGCAGGGA
 AGACTCTTGACAGCTCAGCAGGTGCTCTTCCCAAGACAACCTGGCTACTTTCCAGCAGTTCC
 CAGGGGGACCACCAGATGAGCTGGTTCAGTGACCTCAATCTCGGATGTTCCAGAGACCCCT
 CTATGCAAGGAGGCAGGAAAGAAATTTGCTCTATGACCTGGGTTTTGATAGCAGTGATGAT
 GATGGCTTCTGACCAGTCCACAGTTGATTTATTTGGTCTCAGCTAGAAAGAGAAATTCAG
 GACATTTGGGCTGGCCAACAGCAGAAAGTCCCTGAAGCCTGCCAAGTACCCAGGGTCAGA
 GGCCCTGCTGAGGTGGGCAATGAGCACGAGGGCAGGGAAGGTCCAGCATTCTGGGTACC
 AGGTGCTGCCCTGACAAGGATTAAGTGCATCCTTATTTATTGGAATGAAATGTGAAAAAT
 GGTGCTGATGAAAACAGGCAGCAGCCTGGTTGTGGGCATCTGGAGCAGGGTGCCTGT
 ACTTTGGCGAAAGGCAGGCAGGCCTCCTTATGGAATACTGTGTAGCAGAAAGGGCTCAT
 AAAACTGTTGCGGTGGCAGCATGACTCCAACAACATTTTGGGTCTTTAAATATTCCC
 TACACATGACCAATACATTTTCAGGCCTCAGGAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_178173 unedited TCAGGTCGTTATTTGTATACGACTCATATAGGCGGCCGCATAACTTCGTATAGCATACAT TATACGAAGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTGAGAGCGGGCTTT TCCTTCATCTCCAAAGTCCTCTAAACTGACAGGGTCTCATTCTGTGCGCCAGGCTGGAGT GTAGTGACGCGATCTCGGCTCACTGCAACCTCTACCTCCCAGGTTCAAACGATCCTCCCG CCTCAGCCTCCGAGTAGCTGGGACCACAGGGGCCCGGTTTCGATGTCCCATCTGCCACG GCGCCTCTCGTGCCAGCTGCTCCGCCTGCTGCCCTTGCTCAGACCACCAAGTATCAT CTGTGCTCTGGCCCTGGCCACCAGTTCCACCCACATGCTGTCTCACAGGTGGCGCCT TGCCATTCTGGGACCAGGGCCTCCTTGTCTGGTCATACACAGTGAGTGATGTCGAG GCGACAAGTATACTATAAGAAATGAATTTTAATGTCTGGAATATCAAAGAGATGCTCAG TATTCCTTCAGGCTCTGGGAACAAGAAGTCATCCAAGTGAATAATAATCAAAATGATTA TTCCAGTCTCAGTGATTCCAGTTCCTCTTTGGATCTCAGTTCTGTCCAGAAAATTCAGA AACCTATCAGCACCTTGACTTTGGTGCCCACTTGAGACATTCAAAACAGTCACAACA GAACTATCTGGAGGTGAACCTAGCATTTTCACAAAGTACCAGACAAAGCCCCAGCTGTT CGGAGGAGAATAAAAGATGGAGTTTATTTCTCTCTCTTTGTGAGTTGAAAAATCAAAA GCCTCTTGGGACAGTTTGAGGAGAAAAAGAAAGGGCAAAGACAAAGTGACAGTGAGT
Restriction Sites:	NotI-NotI
ACCN:	NM_178173
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).
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_178173.2</u> , <u>NP_835467.1</u>
RefSeq Size:	2994 bp
RefSeq ORF:	1755 bp
Locus ID:	339834
UniProt ID:	<u>Q8IYA8</u>
Cytogenetics:	3p21.31

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.