

## Product datasheet for **RC212406**

### WHSC1 (NM\_001042424) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	WHSC1 (NM_001042424) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	WHSC1
Synonyms:	KMT3F; KMT3G; MMSET; REIIBP; TRX5; WHS; WHSC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC212406 representing NM_001042424 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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**Protein Sequence:** >RC212406 representing NM\_001042424  
 Red=Cloning site Green=Tags(s)

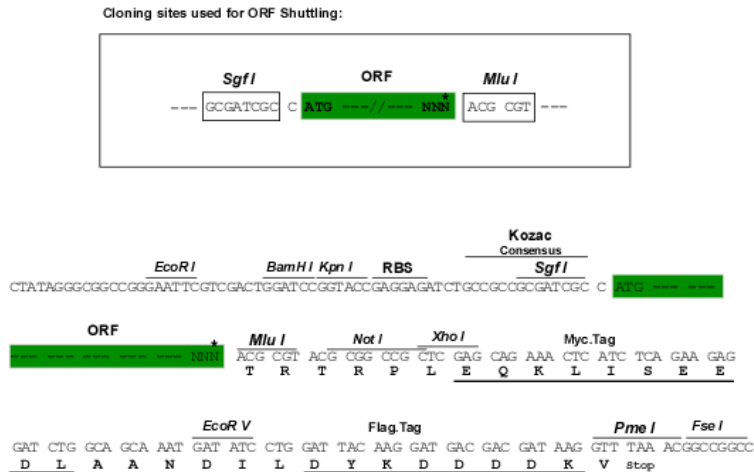
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KAYHL SCLGLGRPF GKWEC PWHHC DVC GK P ST SF CHL CPNS FCKE HQDGTAF S CTPDGRS YCCEHDLGA
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```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg4903\\_b04.zip](https://cdn.origene.com/chromatograms/mg4903_b04.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

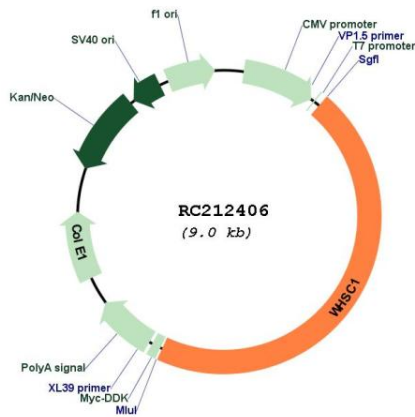
**ACCN:** NM\_001042424

**ORF Size:** 4095 bp

<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<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_001042424.3</a>
<b>RefSeq Size:</b>	7568 bp
<b>RefSeq ORF:</b>	4098 bp
<b>Locus ID:</b>	7468
<b>UniProt ID:</b>	<a href="#">O96028</a>
<b>Cytogenetics:</b>	4p16.3
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	Lysine degradation
<b>MW:</b>	152.1 kDa

**Gene Summary:**

This gene encodes a protein that contains four domains present in other developmental proteins: a PWWP domain, an HMG box, a SET domain, and a PHD-type zinc finger. It is expressed ubiquitously in early development. Wolf-Hirschhorn syndrome (WHS) is a malformation syndrome associated with a hemizygous deletion of the distal short arm of chromosome 4. This gene maps to the 165 kb WHS critical region and has also been involved in the chromosomal translocation t(4;14)(p16.3;q32.3) in multiple myelomas. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms. Some transcript variants are nonsense-mediated mRNA (NMD) decay candidates, hence not represented as reference sequences. [provided by RefSeq, Jul 2008]

**Product images:**


Circular map for RC212406