

## Product datasheet for **MG209548**

### Ifi204 (BC010546) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ifi204 (BC010546) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ifi204
Synonyms:	Ifi16; p204
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG209548 representing BC010546  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGTGAATGAATACAAGAGAATTGTTCTGCTGAGAGGACTTGAATGTATCAATAAGCATTATTTTACGCT  
 TATTTAAGTCATTGCTGGCCAGAGATTTAAATCTGGAAAGAGACAACCAAGGCAATACACCACGATTCA  
 GATTGCTAACATGATGGAAGAGAAATTTCCAGCTGATTCTGGATTGGCAAACCTGATTGAGTTTTGTGAA  
 GAAGTACCAGCTCTAGAAAACGAGCTGAAATTTAAAAAGAGAGATCAGAAGTAACAGGAGAAACAT  
 CACTGGAAAAAATGGTCAAGAAGCAGGCTCTGCAACACCTACATCAACTACAAGCCACATGTTAGCATC  
 TGAAAGAGGCGAGACTTCTGCAACCCAGGAAGAGACTTCCACAGCTCAGGCGGGGACTTCCACAGCTCAG  
 GCGAGGACTTCCACAGCTCAGGCGAGGACTTCCACAGCTCAGGAGGGGACTTCCACAGCCAGAAAAAGAA  
 AAAGTATGAGAGAAGAAGAGACTGGAGTAAAAAGAGCAAGGCGGCTAAGGAACCAGATCAGCCTCCCTG  
 TTGTGAAGAACCACAGCCATGTGCCAGTACCAATACTCCACAGCTCATCTTCGGTTCATCTAACATT  
 CCTTCGGCTAAGAACCAAAAATCACAACCCAGAATCAGAATATTTCCAGAGGTGCTGTTCTCCACTCAG  
 AGCCCCGACAGTGATGGTGCTCACTGCAACAGACCCATTTGAATATGAATCACCAGAACATGAAGTAAA  
 GAACATGCTTCATGCTACAGTGGCTACAGTGAGCCAGTATTTCCATGTGAAAGTTTTCAACATCACTTG  
 AAAGAAAAGTTTCAAAAAAGAAATTTATCATCATATCCAATTACTTTGAGAGCAAAGGCATCCTGGAGA  
 TCAATGAGACTTCTCTGTGTTAGAGGCTGCTCCTGACCAATGATTGAAGTGCCCAACAGTATTATCAG  
 AAATGCAAATGCAAGTCTAAGATCTGTGATATCAAAGGGTACTTCTGGAGCAGTGTTCATGGAGTG  
 TTTACATTACACAAGAAAACAGTGAACCGAAAGAACACAATCTATGAAATAAAAGATGGTTCAGGAAGCA  
 TAGAAGTGGTGGGAGTGAAAAATGGCACAACATCAACTGCAAGGAAGGAGATAAACTCCACCTCTCTG  
 CTTTACCTGAAAACAATTTGACAGGCAACCAAGTTAGTGTGTGGAGAACACAGTTTCATCAAGATATCA  
 AAGAGAGGAAATGTACCAAGGAGCCTGCTAAGGAAGAAGATCACCATCATGGTCCCAAACAAGTATGG  
 TGCTGAAAGTAACAGAACCATTTACATATGACCTGAAAGAGGATAAAAAGAAATGTTTCATGCTACCGTGGC  
 TACTGAAACTGAGTTCTCAGAGTGAAGGTTTTGACACAGCTCTAAAGAGCAAGTTCATCCCAAGAAAT  
 ATCATTGCCATATCAGATTATTTGGGTGCAATGGGTTTTCTGGAGATACAGAGCTTCTGTGTCTCTG  
 ATGTGAACGTTAATCCAACAATGGTTATCTCAAATACACTGAGACAAAGAGCTAATGCAACTCCTAAAAT  
 TTCTTATCTTTTCTACAAGCAAGGGGACATTTGTGAGTGGAGAGTACTTAGTAATAAGAAAACGGAG  
 AGGAATAAATTTACTATGGAATTGGAGATGATACAGGAAAATGGAAGTGGTGGTTATGGAAGAC  
 TCACCAATGTGAGGTGTGAACCAGGCAGTAACTAAGACTTGTCTGCTTTGAATTGACTTCCACTGAAGA  
 TGGGTGGCAGCTGAGGTCTGTAAGGCACAGTTACATGCAGGTCATCAATGCTAGAAAAG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG209548 representing BC010546  
 Red=Cloning site Green=Tags(s)

MVNEYKRIVLLRGLKINHYFSLFKSLLARDLNLERDNQEYTTIQIANMEEKFPADSLGKLEIFCE  
 EVPALRKRAEILKKERSEVTGETSLEKNGQEAGPATPTSTTSHMLASERGETSATQEETSTAQAGTSTAQ  
 ARTSTAQARTSTAQEGTSTAQKRKSMREEETGVKKSAAKEPDQPPCCEPTAMCQSPILHSSSSASSNI  
 PSAKNQKSQPQNIPRGAVLHSEPLTVMVLTATDPFEYESPEHEVKNMLHATVATVSQYFHVKVFNINL  
 KEKFTKKNFIIISNYFESKGILEINETSSVLEAAPDQMIEVPNSIIRNANASPKICDIQKGTSGAVFYGV  
 FTLHKKTVNRKNTIYEIKDGSISIEVVGSGKWHNINCKEGDKLHLFCFHLKTIDRQPKLVGGEHSFIKIS  
 KRGNVPKEPAKEEDHHHGPKQVMVLKVTEPFTYDLKEDKRMFHATVATEFEFRVKVFDTALKSKFIPRN  
 IIAISDYFGCNGFLEIYRASCVSDVNVNPTMVISNTRLRQRANATPKISYLF SQARGTFVSGEYLVNKKTE  
 RNKFIYYGIGDDTGKMEVVYGRLLTNVRCEPGSKLRLVCFELTSTEDGWQLRSVRHSYMQVINARK

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



<b>OTI Disclaimer:</b>	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>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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="#">BC010546</a> , <a href="#">AAH10546</a>
<b>RefSeq Size:</b>	2296 bp
<b>RefSeq ORF:</b>	1880 bp
<b>Locus ID:</b>	15951
<b>Cytogenetics:</b>	1 80.63 cM
<b>Gene Summary:</b>	Inhibits the transcription of ribosomal RNA. May inhibit DNA binding by UBTF. Inhibits cell growth via p53/TP53 and RB1-dependent and independent pathways. Acts as a coactivator of RUNX2 during osteogenesis. May be involved in macrophage differentiation. Enables skeletal muscle and cardiac myocyte differentiation by sequestering Id proteins in the cytosol and promoting their ubiquitination and subsequent degradation.[UniProtKB/Swiss-Prot Function]