

## Product datasheet for **MG210208**

### Arnt2 (NM\_007488) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Arnt2 (NM_007488) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Arnt2
Synonyms:	bHLHe1; Hif-2b; mKIAA0307
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG210208 representing NM\_007488  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCAACCCCGCCCGCTCAACCCTCCGGAGATGGCGTCAGACATACCAGGATCTGTGGCCTTGCTG  
 TTGCCCCATGGCAGCCACCGGACAGGTGAGAATGGCAGGGCCATGCCTGCCGAGGAGAAAGCGTCG  
 ATCCGGAATGGACTTCGATGACGAAGATGGTGAAGGTCCAGTAAATTCTCAAGAGAGAACCACAGTGAG  
 ATTGAGCGGCGCAGGCGGAACAAGATGACTCAATATATTACGGAACCTCCGACATGGTCCACCTGCA  
 GTGCACCTGGTAGGAAGCCAGACAAGCTGACCATCCTGCGCATGGCGGTCTCGCACATGAAGTCCATGAG  
 GGGCACCGGCAACAAATCGACTGACGGCGCTACAAGCCTTCCTCCTCACTGAGCAGGAACTGAAGCAT  
 CTCATCCTGGAAGCCGCTGATGGATTTCTGTTTGGTGGCAGCTGAGACAGGGAGATCATCTACGTGT  
 CTGATTCGGTCACTCCTGTCTGAACCAGCCACAGTCAGAGTGGTTTGGGAGCACGCTTTATGAGCAGGT  
 GCACCCTGATGAGTGGAGAACTGAGGGAACAGCTGTGCACTTCGAAAACTCCATGACAGGCCGCATC  
 CTGGACCTGAAGACTGGGACAGTGAAGAAGGAGGGACAGCAGTATCCATGCGCATGTGTATGGGCTCTC  
 GGCCTCCTTCATCTGTAGGATGAGGTGTGAAACCGCTCCCTTGACCACCTGCCTTTGAACAGAATAAC  
 CACCATGAGGAAAAGGTTCAAGGATGGCCTTGCCCTGTGAAAGAAGGAGAAGCCAGTATGCTGTGGTC  
 CACTGCACAGGTTACATCAAGGCTTGCCACCAGCAGGAATGACCATACCCGAAGAAGACGCTGATGTGC  
 GACAAGGCAGTAAATATTGCCTCGTGGCAATTGGGAGGCTCCAGGTGACCAGCTCTCCTGTGTGCATGGA  
 CATGAGCGGCATGTCAGTGCCACAGAGTTCCTGTACGGCACAACCTCTGATGGGATTATCACGTTTGTG  
 GACCCAGATGCATCAGTGTGATTGGCTACCAGCCCCAGGACCTTCTGGGAAAGGATATTTTGAATTTT  
 GCCACCCTGAGGATCAGAGCCACCTACGGGAGAGCTTCCAACAGGTGGTTAAGCTGAAGGGCCAAGTGCT  
 GTCGGTCATGTATCGGTTCCGCACCAAGAACCGGGAGTGGCTGTTGATCCGTACCAGCAGCTTCACCTTC  
 CAGAACCCTACTCTGATGAGATCGAGTACGTACCTGCACCAACACCAATGTCAAGCAACTTCAGCAAC  
 AGCAGGCAGAACTGGAGGTACATCAGCGAGATGGGCTGTGTCATATGACTTATCTCAGGTCCCAGTACC  
 CAACCTACCCGCTGGTGTTCACGAGGCCGGGAAGTCTGTGAAAAAGGCAGATGCAATCTTCTCCCAAGAG  
 AGAGACCCTCGTTTTGCTGAGATGTTTGCAGGCATCAGTGCATCTGAGAAGAAGATGATGAGCTCAGCCT  
 CAGCATCAGGCAGCCAGCAGATCTACTCCAAGGAAGTCCATTCCTGCCGGGCACTCGGCAAGGCCTT  
 CAGCTCTCCGTGGTCCATGTGCCTGGAGTGAATGACATTCAGTCTCCTCCTCAACGGGACAGAACATA  
 TCCAGATCTCTCGGCAGCTGAACCAGGCCAGGTGGCATGGACAGGCAGCCGTCCACCGTTCACAGGGC  
 AGCCCAGCAAGACGCAGTATCTGCCTTCGGAATTGGATCAAGCCACCCTTACCCGGCTGACCCTTCATC  
 CTACAGTCTCTCAGCCAGCTGCCTCCTCAACAAGTGGAAACGCATACCCAGTCTTGCCAACAGG  
 ACTCCAGGTTTGTGAGAGTGGACAGAGTGGCGGGCAGTTCAGGGCCGGCCCTCGGAGGTCTGGTCCC  
 AGTGGCAGAGCCAGCATCACGGACAGCAGAGCGGTGAGCAGCACTCGCATCAGCAGCCTGGCCAGACTGA  
 AGTGTTCAGGACATGCTACCCATGCCGGGCGACCCGACGCAGGGGACTGGCAACTATAACATCGAGGAC  
 TTTGCTGACCTGGGCATGTTCCCTCCATTTTCTGAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG210208 representing NM\_007488  
 Red=Cloning site Green=Tags(s)

MATPAAVNPPEMASDIPGSVALPVAPMAATGQVRMAGAMPARGGKRRSGMDFDDEDGEGPSKFSRENHSE  
 IERRRRNKMTQYITELSDMVPTCSALARKPDKLTILRMAVSHMKSMRGTGNKSTDGAYKPSFLTEQELKH  
 LILEAADGFLFVAAETGRVIYVSDSVTPVLNQPQSEWFGSTLYEQVHPDDVEKLREQLCTSENSMTGRI  
 LDLKTGTVKKEGQQSSMRMCMGSRRSFICRMRCGNAPLDHLPLNRITTMKRFRNGLGPVKEGEAQYAVV  
 HCTGYIKAWPPAGMTIPEEDADVQGSKYCLVAIGRLQVTSSPVCMDMSGMSVPTFLSRHNSDGIITFV  
 DPRCISVIGYQPQDLLGKDILEFCHPEDQSHLRESFQQVVKLKGQVLSVMYRFRTKNREWLLIRTSSFTF  
 QNPYSDEIEYVCTNTNVKQLQQQAELEVHQRDGLSSYDLSQVPVNPAPAGVHEAGKSVEKADAIFSQE  
 RDRPFAEMFAGISASEKKMSSASASGSQQIYSQGSPPAGHSGKAFSSSVVHVPGVNDIQSSSSTGQNI  
 SQISRQLNQGVAWTGSRPPFPQPSTQSSAFGIGSSHYPADPSSYSPLSSPAASSPSGNAYPSLANR  
 TPGFAESGQSGGFQGRPSEVWSQWQSQHHGQSQSGEQSHHQPGQTEVFQDMLPMPGDPTQGTGNYNIED  
 FADLGMFPPFSE

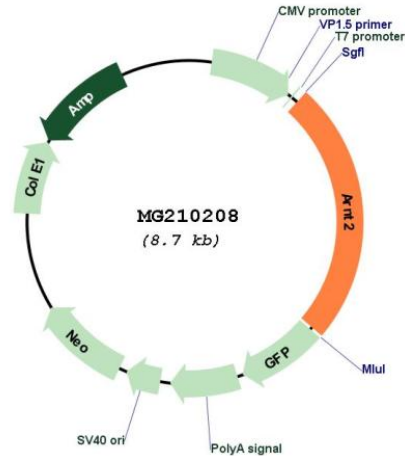
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**


**ACCN:** NM\_007488

**ORF Size:** 2136 bp

**OTI Disclaimer:** 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. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:** [NM\\_007488.2](#), [NP\\_031514.2](#)

**RefSeq Size:** 6006 bp

**RefSeq ORF:** 2139 bp

Locus ID:	11864
UniProt ID:	<a href="#">Q61324</a>
Cytogenetics:	7 48.35 cM
Gene Summary:	Transcription factor that plays a role in the development of the hypothalamo-pituitary axis, postnatal brain growth, and visual and renal function. Specifically recognizes the xenobiotic response element (XRE).[UniProtKB/Swiss-Prot Function]