

## Product datasheet for **MG226140**

### Crh (NM\_205769) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Crh (NM_205769) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Crh
Synonyms:	CR; CRF; Gm1347
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226140 representing NM_205769 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCGGCTGCGGCTGCTGGTGTCCGCGGGCATGCTGCTGGTGGCTCTGTCGTCCTGCCTGCCTTGCAGGG  
CCCTGCTCAGCAGGGGATCCGTCCCCGAGCGCCGCGGGCCCCGAGCCCTTGAATTTCTTGACCCGGA  
GCAGCCCCAGCAACCTCAGCCGTTCTGATCCGCATGGGTGAAGAATACTTCCTCCGCCTGGGGAATCTC  
AACAGAAGTCCCCTGCTCGGCTGTCCCAACTCCACGCCCTCACCGGGTTCGCGGCAGCCGCCCT  
CGCAGCAGCAGGCTGCGGCTAACTTTTCCGCGTGTGCTGCAGCAGCTGCAGATGCCTCAGCGCTCGCT  
CGACAGCCGCGCGAGCCGGCCGAACGCGGCGCCGAGGATGCCCTCGGTGGCCACCAGGGGCGCTGGAG  
AGGGAGAGGCGGTTCGGAGGAGCCGCCATCTCTGATCTCACCTTCCACCTTCTGCGGGAAGTCTTGG  
AAATGGCCCGGGCAGAGCAGTTAGCTCAGCAAGCTCACAGCAACAGGAACTGATGGAGATTATCGGAA  
A

**ACGCGT**ACGCGGCGGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:	>MG226140 representing NM_205769 Red=Cloning site Green=Tags(s)
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MRLRLVLSAGMLLVALSSCLPCRALLSRGSRPRAPQPLNFLQPEQPQPQPVLIRMGEYFLRLGNL  
NRSPAARLSPNSTPLTAGRGRPSHDQAAANFFRVLLQQLQMPQRSLSRAEPAERGAEDALGGHQGALE  
RERRSEEPPISLDLTFHLLREVLEMARAEQLAQQAHSNRKLMEIIGK

**TRTRPLE** - GFP Tag - V

Restriction Sites:	SgfI-MluI
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## Cloning Scheme:



ACCN: NM\_205769

ORF Size: 561 bp

**OTI Disclaimer:** 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 [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

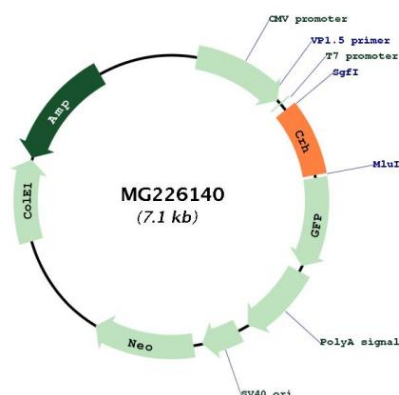
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**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.

<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u>NM_205769.3, NP_991338.1</u>
<b>RefSeq Size:</b>	1320 bp
<b>RefSeq ORF:</b>	564 bp
<b>Locus ID:</b>	12918
<b>UniProt ID:</b>	<u>Q8CIT0</u>
<b>Cytogenetics:</b>	3 5.75 cM
<b>Gene Summary:</b>	This gene encodes a member of the corticotropin-releasing factor family and preproprotein that is proteolytically processed to generate a mature protein product. This protein product is a neuropeptide hormone that binds to the corticotropin releasing hormone receptors (CRHR1 and CRHR2) to stimulate the release of adrenocorticotrophic hormone from the pituitary gland in response to stress. The encoded protein may also regulate angiogenesis and inflammation. Homozygous knockout mice for this gene exhibit reduced corticosterone levels while the offspring of these mice die perinatally. [provided by RefSeq, Aug 2015]

## Product images:



Circular map for MG226140