

## Product datasheet for **RG214368**

### **CHES1 (FOXN3) (NM\_001085471) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CHES1 (FOXN3) (NM_001085471) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CHES1
Synonyms:	C14orf116; CHES1; PRO1635
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG214368 representing NM\_001085471  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGTCCAGTCATGCCTCCCAGTAAGAAGCCAGAAAGCTCAGGAATTAGTGTCTCCAGTGGACTGAGTC  
 AGTGTTACGGGGCAGCGTTTTCTCCAAGGCCCTTCAGGAAGACGATGACCTCGACTTTTCTCTGCCTGA  
 CATCCGATTAGAAGAGGGGGCCATGGAAGATGAAGAGCTGACCAACCTGAACTGGCTGCACGAGAGCAAG  
 AACTTGCTGAAGAGCTTTGGGGAGTCGGTCTCAGGAGTGTACGCCCCGTCAGGACCTGGACGATGACA  
 CCCCCCATCCCCTGCCACTCTGACATGCCCTACGATGCCAGGCAGAACCCCAACTGCAAACCCCCTA  
 CTCCTTACAGTGCCTCATATTTATGGCCATCGAGGACTCTCAACCAAGCGCCTGCCAGTGAAGGATATC  
 TACAACTGGATCTTGAACATTTTCCGTATTTGCAAATGCACCTACTGGGTGGAAAACTCAGTGAGAC  
 ACAATTTATCATTGAATAAGTGTTTAAGAAAGTGACAAAGAGAGGAGTCAGAGTATTGGGAAAGGGTC  
 GTTGTGGTGCATAGACCCAGAGTATAGACAAAATCTAATTCAGGCTTTGAAAAAGACACCTTATCACCCA  
 CACCCACACGTGTTCAATACACCTCCCACCTGTCTCAGGCATATCAAAGCACATCAGGTCCACCCATCT  
 GGCCGGGCGAGTACCTTCTCAAGAGAAATGGAGCCCTTCTCAAGATCCTGACATTGATGCTGCCAGTGC  
 CATGATGCTTTTGAATACTCCCCCTGAGATACAAGCAGTTTTCTCCAGGAGTGATCCAAAATGGAGCG  
 CGGGTCTGAGCCGAGGGCTGTTTCTGGCGTGCGGCCGTGCCAATCACTCCCATTGGGGTGACAGCGG  
 CCATGAGGAATGGCATCACACGTGCCGGATGCCGACTGAGAGTGAGCCATCTTGTGGCTCCCCAGTGGT  
 CAGCGGAGACCCCAAGGAGGATCACAACACAGCAGTGCCAAAGTCTCCAACGCCCGGAGCACCTCGCCC  
 ACCAGCGACTCCATCTCCTCCTCCTCCTCAGCCGACGACCACTATGAGTTTGCCACCAAGGGGAGCC  
 AGGAGGGCAGCGAGGGCAGCGAGGGGAGCTTCCGGAGCCACGAGAGCCCAAGCAGCACGGAAGAGGACGA  
 CAGGAAGCACAGCCAGAAGGAGCCCAAGGATTCTCTGGGGGACAGCGGGTACGCATCCCAGCACAAAGAAG  
 CGCCAGCACTTCGCCAAGGCCAGGAAGTCCCCAGCGACACACTGCCCTCAAAAAGAGACGCACCGAAA  
 AGCCCCCGAGAGCGATGATGAGGAGATGAAAGAAGCGGCAGGGTCCCTCCTGCACTTAGCAGGGATCCG  
 GTCCTGTTGAATAACATCACCAATCGGACGGCAAAGGGGAGCAAAGAGCAAAGGAAACCAAAAAAT

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG214368 representing NM\_001085471  
 Red=Cloning site Green=Tags(s)

MGPVMPPSKKPESGIVSSGLSQCYGSGFSKALQEDDDLDFSLPDIRLEEGAMEDEELTNLNWLHESK  
 NLLKSFGESVLRVSPVQDLDDTPPSPAHSDMPYDARQNPNCPPYSFSLIFMAIEDSPTKRLPVKDI  
 YNWILEHFYPYFANAPTGWKNSVRHNLNLNCFKKVDKERSQSIGKSLWCIDPEYRQNLIQALKKTPYHP  
 HPHVFNTPTCPQAYQSTSGPPIWPGSTFFKRNALLQDPDIDAASAMLLNTPPEIQAGFPFGVIQNGA  
 RVLRSGLFPGVRPLPITPIGVTAAAMRNGITSCMRTESEPCGSPVVSVDPKEDHNYSSAKSSNARSTSP  
 TSDSISSSSSSADHYEFATKGSQEGSEGSEGSFRSHESPSDTEEDDRKHSQKEPKDSLGDSDGYASQHKK  
 RQHFARKRVPSDTLPLKKRREKPPESDDEEMKEAAGSLLHLAGIRSLNINRTAKGQKEQKETT

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001085471

**ORF Size:** 1470 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\\_001085471.2](#)

**RefSeq Size:** 7856 bp

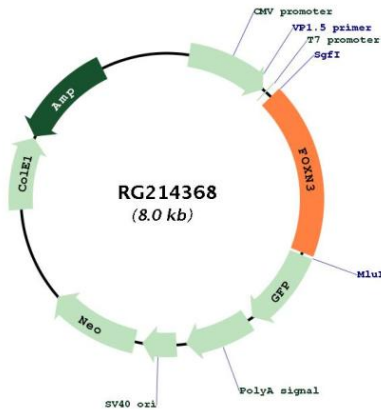
**RefSeq ORF:** 1473 bp

**Locus ID:** 1112

**UniProt ID:** [O00409](#)

Cytogenetics:	14q31.3-q32.11
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	This gene is a member of the forkhead/winged helix transcription factor family. Checkpoints are eukaryotic DNA damage-inducible cell cycle arrests at G1 and G2. Checkpoint suppressor 1 suppresses multiple yeast checkpoint mutations including mec1, rad9, rad53 and dun1 by activating a MEC1-independent checkpoint pathway. Alternative splicing is observed at the locus, resulting in distinct isoforms. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG214368