

## Product datasheet for **RG201298**

### **CHES1 (FOXN3) (NM\_005197) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CHES1 (FOXN3) (NM_005197) 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:**

>RG201298 representing NM\_005197  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGTCCAGTCATGCCTCCCAGTAAGAAGCCAGAAAGCTCAGGAATTAGTGTCTCCAGTGGACTGAGTC  
 AGTGTTACGGGGCAGCGTTTTCTCCAAGGCCCTTCAGGAAGACGATGACCTCGACTTTTCTCTGCCTGA  
 CATCCGATTAGAAGAGGGGGCCATGGAAGATGAAGAGCTGACCAACCTGAACTGGCTGCACGAGAGCAAG  
 AACTTGCTGAAGAGCTTTGGGGAGTCGGTCTCAGGAGTGTACGCCCCGTCCAGGACCTGGACGATGACA  
 CCCCCCATCCCCTGCCACTCTGACATGCCCTACGATGCCAGGCAGAACCCCAACTGCAAACCCCTTA  
 CTCCTTACAGTGCCTCATATTTATGGCCATCGAGGACTCTCCAACCAAGCGCCTGCCAGTGAAGGATATC  
 TACAACTGGATCTTGAACATTTTCCGTATTTGCAAATGCACCTACTGGGTGGAAAACTCAGTGAGAC  
 ACAATTTATCATTGAATAAGTGTTTAAGAAAGTGGACAAAGAGAGGAGTCAGAGTATTGGGAAAGGGTC  
 GTTGTGGTGCATAGACCCAGAGTATAGACAAAATCTAATTCAGGCTTTGAAAAAGACACCTTATCACCCA  
 CACCCACACGTGTTCAATACACCTCCCACCTGTCTCAGGCATATCAAAGCACATCAGGTCCACCCATCT  
 GGCCGGGCGAGTACCTTCTCAAGAGAAATGGAGCCCTTCTCAAGTTCCTCCAGGAGTGATCCAAAATGG  
 AGCGCGGGTCTGAGCCGAGGGCTGTTTCTGGCGTGCAGCCGCTGCCAATCACTCCCATTGGGGTGACA  
 GCGGCCATGAGGAATGGCATCACAGCTGCCGGATGCGGACTGAGAGTGAGCCATCTTGTGGCTCCCCAG  
 TGGTCAGCGGAGACCCCAAGGAGGATCACAACTACAGCAGTGCCAAGTCTCCAACGCCCGGAGCACCTC  
 GCCCACCAGCGACTCCATCTCCTCCTCCTCCTCAGCCGACGACCACTATGAGTTTGCACCAAGGGG  
 AGCCAGGAGGGCAGCGAGGGCAGCGAGGGGAGCTTCCGGAGCCACGAGAGCCCCAGCGACACGGAAGAGG  
 ACGACAGGAAGCACAGCCAGAAGGAGCCCAAGGATTCTCTGGGGGACAGCGGGTACGCATCCCAGCACA  
 GAAGCGCCAGCACTTCGCCAAGGCCAGGAAGTCCCCAGCGACACACTGCCCTCAAAAAGAGACGCACC  
 GAAAAGCCCCCGAGAGCGATGATGAGGAGATGAAAGAAGCGGCAGGGTCCCTCCTGCACCTAGCAGGGA  
 TCCGGTCTGTTGAATAACATACCAATCGGACGGCAAAGGGGCAGAAAGAGCAAAGGAAACCACAAA  
 AAAT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG201298 representing NM\_005197  
 Red=Cloning site Green=Tags(s)

MGPVMPPSKKPESGIVSSGLSQCYGSGFSKALQEDDDLDFSLPDIRLEEGAMEDEELTNLNWLHESK  
 NLLKSFGESVLRVSPVQDLDDDTPPSPAHSDMPYDARQNPNCPPYSFSLIFMAIEDSPTKRLPVKDI  
 YNWILEHFYPYFANAPTGWKNSVRHNLNLNCFKKVDKERSQSIGKSLWCIDPEYRQNLIQALKKTPYHP  
 HPHVFNTPTCPQAYQSTSGPPIWPGSTFFKRNALLQVPPGVIQNGARVLSRGLFPGVRPLPITPIGVT  
 AAMRNGITSCRMRTSEPSGSPVVSQDPKEDHNYSSAKSSNARSTSPSDSISSSSSADHDHYEFATKG  
 SQEGSEGSEGSFRSHESPSDTEEDDRKHSQKEPKDSLGD SGYASQHKRQHFAKARKVPSDTLPLKKRRT  
 EKPPESDDEEMKEAAGSLLHLGIRSLNINRTAKGQKEQKETTCKN

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_005197

**ORF Size:** 1404 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\\_005197.4](#)

**RefSeq Size:** 7826 bp

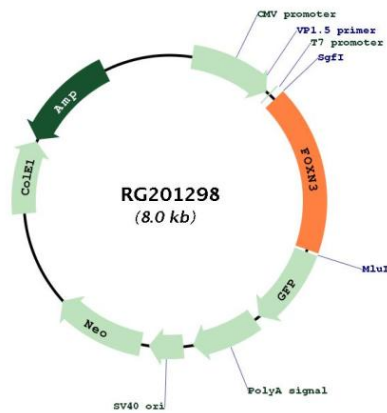
**RefSeq ORF:** 1407 bp

**Locus ID:** 1112

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

**Cytogenetics:** 14q31.3-q32.11  
**Domains:** FH  
**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 RG201298