

Product datasheet for **RG220798**

ZIC2 (NM_007129) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZIC2 (NM_007129) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZIC2
Synonyms:	HPE5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG220798 representing NM_007129
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTCCTGGACGCGGGTCCGCAGTTCGCGCCATCGGGGTGGGAGCTTCGCGGCCACCATCACCCT
 CCGCCCGCGCGCGCGCGGCTGCCGCCGAGATGCAGGACCGTGAAGTGAAGCTGGCGCGCGCAGAA
 CCGCTTCGTTGACTCCGCGCCCGCGCACATGGGAGCCTTCAAGCTCAACCCGGGCGCGCAGAGCTGTCC
 CCGGGCCAGAGCTCGGCGTTCACGTGCGAGGGCCCCGGCGCTACCCCGCTCCGCTGCGGCTGCCGCTG
 CGGCCGACGCGCTCGGGCCCCACGCCGCGCAGTTGGCTCCTACTCTGGGCGGCCCTTAACTCCACCCG
 GGACTTCTGTTCGCGAGCCGCGGCTTCGGGGACTCGGCGCGGGCGGGCAGCACGGGCTGTTCCGG
 CCGGGCGCGGGCGGCTGCACCACGCGCACTCGGACGCGCAGGGCCACCTCCTTCCCGGGCTGCCAG
 AGCAGCACGGGCGCAGGCTCGCAGAATGTGCTCAACGGGCAGATGCGCTCGGGCTGCCCGCGAGGT
 GTTCGGGCGCTCGGAGCAATACCGCCAGGTGGCCAGCCCGCGGACCGACCCTACTCGGGCGGCAACTC
 CACAACAGTACGGCCCCATGAATATGAACATGGGTATGAACATGGCAGCAGCCGCGGCCACCACCACC
 ACCACCACCACCACCACCCGGTGCCTTTTTCCGCTATATGCGGCAGCAGTGCATCAAGCAGGAGCTAAT
 CTGCAAGTGGATCGACCCGAGCAACTGAGCAATCCCAAGAAGAGCTGCAACAAAATTTTTCAGCACCATG
 CACGAGCTGGTGACACACGTCTCGGTGGAGCACGTCCGGCGGCCCGGAGCAGAGCAACCACGTCTGCTTCT
 GGGAGGAGTGTCCGCGCAGGGCAAGCCCTTCAAGGCCAATAACAACTGGTCAACCACATCCGCGTGCA
 CACAGGCGAGAAACCTTCCCCTGCCCTTCCCGGGCTGTGGCAAAGTCTTCGCGCGCTCCGAGAACCTC
 AAGATCCACAAAAGGACCCACACAGGGGAGAAGCCGTTCCAGTGTGAGTTTGAGGGCTCGCAGCCGGCGT
 TCGCCAACAGCAGCAGGAGAAGAACACATGCACGTCACACCTCCGATAAGCCCTATCTCTGCAAGAT
 GTGCGACAAGTCTTACACGCACCCAGCTCGCTGCGGAAGCACATGAAGTCCATGAGTCCCTCCCGCAG
 GGCTCTGAATCCTCCCGGCGCCAGCTCCGGCTATGAGTCGTCCACGCCCCCGGGGCTGGTGTCCCCCA
 GCGCCGAGCCCCAGAGCAGTCCAACCTGTCCCAGCGCGCGCGCAGCGGCGGGCGGCTGCGGCGGC
 GGCGGCCGCGGTGTCCGCGGTGCACCGGGCGGAGGCTCGGGCAGTGGCGGCGGGGAGGCGGCTCAGGC
 GGCGGCAGCGCAGTGGCGGGGCGGGCGGGGCGGGCGGGGCGGGGCGGCAGCTCTGGCGGGGCA
 GCGGGACAGCCGGGGTACAGCGGCTCTCTCCAATCAATGAATGGTACGTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG220798 representing NM_007129
 Red=Cloning site Green=Tags(s)

MLLDAGPQFPAIGVGSFARHHHHSAAAAAAAAAEMQDRELSLAAAQNGFVDSAAAHMGAFKLNPGAHEL
 PGQSSAFTSQGPGAYPGSAAAAAAAAALGPHAAHVGSYSGPPFNSTRDFLFRSRFGDSAPGGGQHLFG
 PGAGGLHHAHSDAQGHLLFPGLPEQHGHGSGQVNLNGQMLGLPGEVFRSEQYRQVASPRTPYSAQL
 HNQYGPMMNMGMNMAAAAHHHHHHHHPGAFFRYMRQCIKQELICKWIDPEQLSNPKKSCNKTFFSTM
 HELVTHVSVHVGPEQSNHVCFWEECPREGKPFKAKYKLVNHIRVHTGEKPFPCFPFGCGKVFARSEN
 KIHKRTHTEKPFQCFEGCDRRFANSSDRKKMHVHTSDKPYLCKMCDKSYTHPSSLRKHMKVHESPPQ
 GSESSPAASSGYESSTPPGLVSPSAEPQSSNLSPAAAAAAAAAAAAAVSAVHRGGGSGSGGAGGGSG
 GSGSGGGGGGAGGGGGSGGGSGTAGHSGLSNFNEWYV

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_007129

ORF Size: 1596 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_007129.5](#)

RefSeq Size: 2991 bp

RefSeq ORF: 1599 bp

Locus ID: 7546

UniProt ID: [O95409](#)

Cytogenetics: 13q32.3

Domains: zf-C2H2

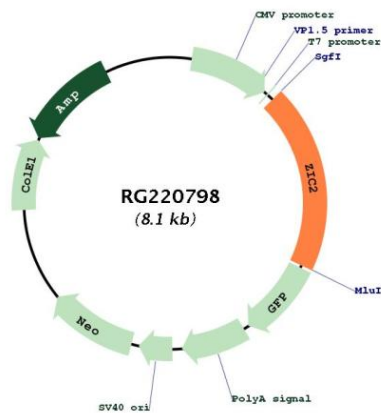
Protein Families: Druggable Genome

Protein Pathways: Hedgehog signaling pathway

MW: 55 kDa

Gene Summary: This gene encodes a member of the ZIC family of C2H2-type zinc finger proteins. This protein functions as a transcriptional repressor and may regulate tissue specific expression of dopamine receptor D1. Expansion of an alanine repeat in the C-terminus of the encoded protein and other mutations in this gene cause holoprosencephaly type 5. Holoprosencephaly is the most common structural anomaly of the human brain. A polyhistidine tract polymorphism in this gene may be associated with increased risk of neural tube defects. This gene is closely linked to a gene encoding zinc finger protein of the cerebellum 5, a related family member on chromosome 13. [provided by RefSeq, Jul 2016]

Product images:



Circular map for RG220798