

## Product datasheet for **RG218943**

### AUTS2 (NM\_015570) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** AUTS2 (NM\_015570) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** AUTS2  
**Synonyms:** FBRSL2; MRD26  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG218943 representing NM\_015570  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGATGGCCCGACGCGGGGCCATGGACTCCGCAAAAAGCGGGGTGCGGTGCGAGCGAGACCGGGAGA  
 GGCGCTCCCGGGCGGGCTGGGGCCGGCGGGCCGGCGGGGCTGGCCGACCCGGGCGCTCTC  
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 AGACCCCGCGGAGGAAGCGGAGAGAGTCCACCTCGGCAGAAGAGGACATCATTGATGGATTTGCCATGA  
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 CCAGACGCCCCTGACCAAGAAGAAACGAGAAGCACTTACCAATGGCTTGTCTTTCAATCAAGAAGAGC  
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 AGAGAAAGAAAATGCCGAAGGCACTCAGACAGCTCAAGCCAGGACAGAACAGCTGCAGGGACAGTGACAG  
 TGAAAGTGCCAGTGGAGAATCCAAGGGCTTCCACCGGAGCAGCTCTCGGGAAAGGCTCAGTGATAGTTCA  
 GCTCCTCCAGCTTGGGAACAGGCTACTTCTGTGACAGTGACAGTGACCAGGAAGAGAAGGCATCAGATG  
 CCAGCTTGAAAACTCTTCAACACTGTTATTGTAACAAAGATCCGGAGTTAGGTGTTGGCAGCCTACC  
 AGAACATGACAGCCAGGATGCAGGGCCGATTGTCCCAAGATATCGGGTCTAGAGAGAAGCCAGGAGAAG  
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 CACAGAGGCCCCACCTCAACCCCACTCTGAGTACACAGCCACCACAGGGCCCTCTGAGGCCAGCTC  
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 ACCTCCCACCTGTGCAGGCCACCCCTCTGCTCAGAGCCTCTCCAGCCATTGTCAGCCTACAACAGCAG  
 TAGCTTAAGCCTCAACAGTTTAAGCAGCAGCAGAAGCAGCACTCCAGCGAAGACTCAGCCCGCCCCACCT  
 CACATCTCCACCACCCCTCTGCTCCCGTTCCTCTCCCTGCCCAACCACAGCCCTGCACAGCT  
 TCACACCACCTCCAGCCCCCGCACACTCACATCACCCAATATGTTTGCCCTCCACTGCTCTGCC  
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CAAGACATCTTGCACAGGAACTGAACACTCGTTTTTGGCCTCTCAGAGTGCTGACCGCGGGGCTTCCC  
TGGGCCCTCCGCCCTACCTGCGGACCGAGTTCCATCAGCACCAGCACCAGCACCAGCACCCACCAGCA  
CACGCACCAGCACACCTTACGCGGTTCCCCACGCCATCCCACCACCGCCATCATGCCGACGCCAGCA  
CCTCCCATGTTTTGACAAATACCTTACAAAAGTTGACCCATTCTACCGGCACAGTCTTCCATTCTATC  
CTCCTGCAGTGTGGGCATCCCCCTATGATCCCACCCACTGGCCCTTTTGGTTCACTACAAGGAGCATT  
TCAGCCGAAGACATCCAACCTATCGATGTCGCTGCTGGCCTGGGACAGTCCCACACACTTTACTCCAA  
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CACCCCATGACCTGGCAGCGCCTTCAACTTTGTTCTCTGCGCTGGTGTGCACACCCAACTGGGACCC  
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GCGAAAGAGGGCCACCTGCCCGAGAAGGACGGGCACGGCCACGAGGGGCGCGCCGGCGGGAAGAGGCCA  
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CCTTGAGGATCCTTACCAGAACTTGACATTACCCGAGAGACCCGCTGGGACGGGACTTCTGCTAAG  
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CCTCAGACTACAGCCACCACCACCACCACCACCACCACCCGCTGTCTGTGGACCCTCGGCGGGAGCAG  
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CAGCAGCGCTGAGCGCACCTCCCCGCTCATCTCCACGCTGGGGGCGCCCGGTCTCTCCAGAAGGAC  
GACTCCTCTGTCCGACAGATAAGGGAGAGGCCCTTCCACACGCTGAAGGATATCGAGGCCCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG218943 representing NM\_015570  
Red=Cloning site Green=Tags(s)

MDGPTRGHGLRKKRRSRSQRDRERRSRGGLGAGAAGGGGAGRTRALSLASSSGSDKEDNGKPPSSAPSRP  
 RPPRRKRRESTSAEEDIIDGFAMTSFVTFEALEKDVALKPQERVEKRQTPLTKKKREALTNLSFHSHKKS  
 RLSHPHHYSSDRENDRLCQHLGKRKKMPKALRQLKPGQNSCRDSDSESASGESKGFHRSRERLSDSS  
 APSSLGTGYFCSDSDQEEKASDASSEKLFNTVI VNKDPELGVGTLPEHDSQDAGPIVPKISGLERSQEK  
 SQDCCKEPIFEPVVLKDCPCQVAQPIPQPQTEPQLRAPSPDPDLVQRTEAPPQPPPLSTQPPQGPPEAQL  
 QPAPQPQVQRPPRPQSPTQLLHQNLPPVQAHPASAQSLSQPLSAYNSSSLSLNSLSSSRSSTPAKTQPAPP  
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 QDILRQELNTRFLASQSADRASLGPPPYLRTEFHQHQHQHQHTHQHTHTFTPFPHAIPTAIMPTPA  
 PPMFDKYPTKVDPFYRHSLFHSYPPAVSGIPPMIPPTGPFGLQGAQPKTSNPIDVAARPGTVPHLLQ  
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 PNSMFGHKDGPVQNFNPNHEPWNRLHRTPPSFPTPPPWLKPGELERSASAAAHDRDRDVKRSDSSVSKD  
 DKERESVEKRHSSHPSPAPVLPVNALGHTRSSTEQIRAHLNTEAREKDKPKERERDHSERKDLAADEHK  
 AKEGHLPEKDGHGHEGRAAGEEAKQLARVPSYVTRPVVESARPNTSSREAEPKGEPAYENPKKSSEV  
 KYKEERKEDHDLPEAPQTHRAEPPPPNSSSSVHPGPLASMPMTVGVTGIHPMNSISSLDRTMMTPFM  
 GISPLPGGERFPYPSFHWDPIRDPLRDPYRELDIHRDPLGRDFLLRNDPLHRLSTPRLYEADRSFRDRE  
 PHDYSHHHHHHHHPLSVDPRREHERGGHLDERERLHMLREDYEHTRLHSVHPASLDGHLPHPSLITPGLP  
 SMHYPRISPTAGNQGLLNKTPPTAALSAPPPLISTLGGRPVSPRRTTPLSAEIRERPPSHTLKDIEAR

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

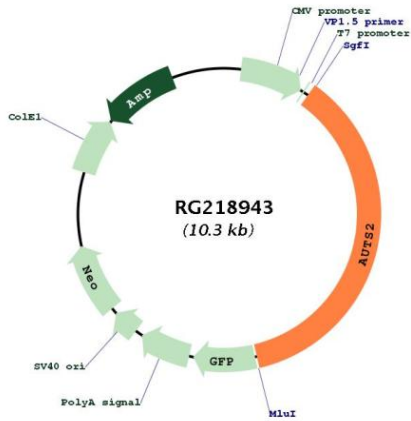


**ACCN:** NM\_015570

**ORF Size:** 3777 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_015570.4</a>
<b>RefSeq Size:</b>	5972 bp
<b>RefSeq ORF:</b>	3780 bp
<b>Locus ID:</b>	26053
<b>UniProt ID:</b>	<a href="#">Q8WXX7</a>
<b>Cytogenetics:</b>	7q11.22
<b>Gene Summary:</b>	This gene has been implicated in neurodevelopment and as a candidate gene for numerous neurological disorders, including autism spectrum disorders, intellectual disability, and developmental delay. Mutations in this gene have also been associated with non-neurological disorders, such as acute lymphoblastic leukemia, aging of the skin, early-onset androgenetic alopecia, and certain cancers. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, May 2014]

Product images:



Circular map for RG218943