

Product datasheet for **RG226607**

ZNF879 (NM_001136116) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZNF879 (NM_001136116) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZNF879
Synonyms:	DKFZp686E2433
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG226607 ORF sequence, **codon optimized**.
 Due to the complexity of NM_001136116, the ORF clone is codon optimized for mammalian Expression.
 The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGCCAGGCGCCTGCTGCCTGCCACGTGCAGGAAAGCGTTACATTCAGGGATGTGGCTGTCTTCTTCT
 CTCAAGATGAGTGGCTGCATCTCGATTCCGCCAGCGCGCTGTATAGGGAAGTGATGCTCGAGAATTA
 TAGCATTCTTGTAGTCTGGGAATCCTGTTTTCAAAGCCCAAAGTATTTCTCAGTTGGAACAGGCGGAG
 GACCCATGGATGGTGGAGTCAGGCGTGCCCGAGGCGCCCATCTTGGGTGGGAGTCACTGTTTGAACCA
 TTGTGTCCAAAGAGGAAAACAGGAGGTATGAAAAAGCTGATCATTGACGGGACGTTTCGATTTTAAGCT
 TGAAAAAACCTACATTAATGAGGACAAATTGGAGAAGCAGCAGGGTAAGAAAAATAGACTTTTCAGCAAG
 GTTCTTGTACTATTAAGAAGGTATACATGAAGGAGCGATCCTTCAAGGCGTGGAGTTCGGGAAAAATC
 TTGGACTGAAGTCTAGCCTCATCCGCAAGCCAGGATTGTGTCCCGCGGTAGAAGACCTCGGTACACAAC
 GTATTCGCTCTTGTTTAAGCAGCTGGGCGTTAATACAGTGCACAAATGTTATAAATGCAACATCTGCGGC
 AAGATCTTCTGCACTCAAGCTCCCTGAGTAAGCATCAGAGGATTCACACGGGTGAAAAGTTGTATAAGT
 GCAAGGAATGCAGAAAAGCCTTTAGCCAGAGCTCCTCCCTGACGCAACACCTGCGAGTGCACACCGGGGA
 AAAGCCCTATATTTGTAGTGAGTGCAGAAAGGCATTTTCTTTCACGACGTCAGTATCGGGCACCAGAGA
 ATGCATACGGGAGAACGGCCCTATAAATGTAAAGAGTGCAGGAAGACCTTTAAGGGGAGCAGCAGTTTGA
 ATAACCACCAGAGAATCCACACAGGAGAAAAACCATATAAGTGTAAACGAATGCGGGCGCGCTTCAGCCA
 ATGTTCTTCACTTATACAGCATCATCGGATCCACACCGGGGAAAAACCATACGAATGCACCAATGCGGC
 AAAGCATTCACAAGCATATCTAGGCTGTCAAGGCATCATAGAATCCATACAGGCGAAAAGCCGTTTCACT
 GCAACGAGTGTGAAAAGTGTCTCTATCATTGAGTCTCATCATCCACCAGAGAATCCACACCGGCGA
 AAAACCCTATGCATGCAAGGAGTGTGAAAGGCCTTCAGTCAGTCTCTGCCCTGATTGAGCACCAGCGG
 ATACACACGGGGGAAAAGCCATATAAGTGTAAAGAGTGTGGAAAGCTTTTTCTTGGATTTACGCCTCA
 ACATCCACCACAGGATACACACAGGGGAAAAACCTACAAGTGTAAAGATGTGGTAAAGCTTTTTCATC
 CCATTCCGGAGTTAATACCCACAGAAAGATCCATACGGGAGAAAAACCTACAAGTGTAAAGTACTGCGAA
 AAAGCGTTTAACAGTCTCTGCTCTGATTCAACATCAACGGATCCACACCGGAGAAAAACCTATAATT
 GTAAAGTGTGCGGCAAAGCTTTTCGGCAGAGCTCCAGCTTGATGACGCACATGAGAATCCATACAGGCGA
 AAAGCCATATAAGTGCAAGAATGTGAAAAGCATTTAGTCAGTCCAGCAGCCTTACTAATCATCAGAGG
 ACCCAAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

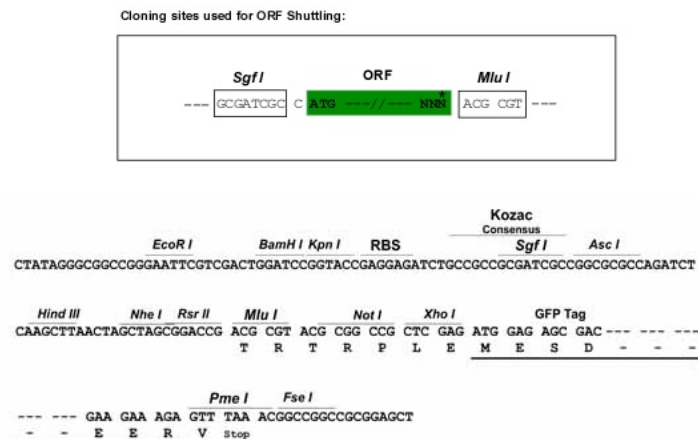
Protein Sequence: >RG226607 representing NM_001136116
 Red=Cloning site Green=Tags(s)

MARRLLPAHVQESVTRFDVAVFFSQDEWLHLSAQRALYREVMLENYSILVSLGILFSKPKVISQLEQGE
 DPWMVESGVPQGAHLGWESLFGTIVSKEENQEVMMKKLIIDGTDFDKLEKTYINEDKLEKQGGKNRFLFSK
 VLVTIKKVYMKERSFKGVFEGKNLGLKSSLIRKPRIVSRGRRPRSQQYSVLFKQLGVNTRVKCYKCNICG
 KIFLHSSSLSKHQRIHTGEKLYKCKECKAFSQSSSLTQHLRVHTGEKPYICSECCKAFSFTTSLIGHQR
 MHTGERPYKCKEKGKTFKGSSSLNNHQRIHTGEKPYKCNCEGKAFSQSSSLIQHHRHTGEKPYECTQCG
 KAFTSISRLSRHRIHTGEKPFHCNECGKVFSYHSALIIHQRIHTGEKPYACKECKGAFSQSSSLIQHQR
 IHTGEKPYKCNCEGKAFSWISRLNIHRIHTGEKPYNCKECKGAFSSHSGVNTHRIHTGEKPYKNCDE
 KAFNQSSALIQHQRIHTGEKPYNCKVCGKAFRQSSSLMTHRIHTGEKPYKCKECKGAFSQSSSLTNHQR
 THN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001136116

ORF Size: 1689 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_001136116.1](#), [NP_001129588.1](#)

RefSeq Size: 2644 bp

RefSeq ORF: 1692 bp

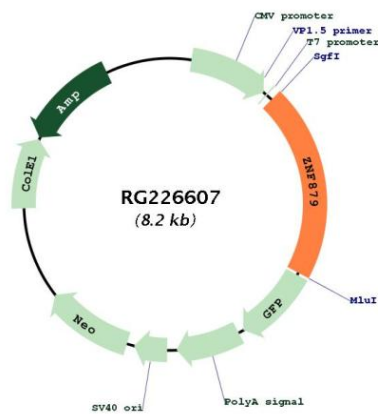
Locus ID: 345462

UniProt ID: [B4DU55](#)

Cytogenetics: 5q35.3

Gene Summary: This gene encodes a kruppel-associated box-containing zinc finger protein (KRAB-ZFP). The encoded protein contains an N-terminal kruppel-associated box (KRAB) domain and thirteen C-terminal C2H2-type zinc finger domains. The KRAB-ZFPs represent the largest family of mammalian transcriptional repressors, which function through the recruitment of the nuclear co-factor KRAB-Associated Protein 1 (KAP1), to engage histone modifiers and induce heterochromatin formation. [provided by RefSeq, Jul 2017]

Product images:



Circular map for RG226607