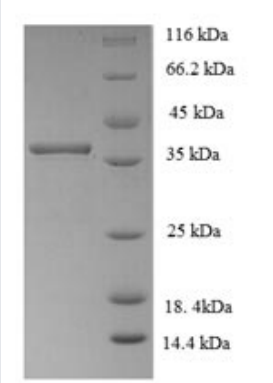
Nuclear Transcription Factor Y Subunit A-3 (NFYA3) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Nuclear transcription factor Y subunit A-3 (NFYA3), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana Nuclear transcription factor Y subunit A-3
Product Gene Name	NFYA3 recombinant protein
Product Synonym Names	Transcriptional activator HAP2; C
Sequence	MMHQMLNKKD SATHSTLPYL NTSISWGVVP TDSVANRRGS AESLSLKVDS RPGHIQTTKQ ISFQDQDSSS TQSTGQSYTE VASSGDDNPS RQISFSAKSG SEITQRKGFA SNPKQGSMTG FPNIHFAPAQ ANFSFHYADP HYGGLLAATY LPQAPTCNPQ MVSMIPGRVP LPAELTETDP VFVNAKQYHA IMRRRQQRAK LEAQNKLIRA RKPYLHESRH VHALKRPRGS GGRFLNTKKL LQESEQAAAR EQEQDKLGQQ VNRKTNMSRF EAHMLQNNKD RSSTTSGSDI TSVSDGADIF GHTEFQFSGF PTPINRAMLV HGQSNDMHGG GDMHHFSVHI
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.
Molecular Weight	41.6 kDa
Sequence Positions	1-340aa; Full Length
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q93ZH2
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for NFYA3 recombinant protein	Stimulates the transcription of various genes by recognizing and binding to a CCAAT motif in promoters.

Product References and Citations for NFYA3 recombinant protein	Multiple genes encoding the conserved CCAAT-box transcription factor complex are expressed in Arabidopsis.Edwards D., Murray J.A.H., Smith A.G.Plant Physiol. 117:1015-1022(1998) Sequence and analysis of chromosome 1 of the plant Arabidopsis thaliana.Theologis A., Ecker J.R., Palm C.J., Federspiel N.A., Kaul S., White O., Alonso J., Altafi H., Araujo R., Bowman C.L., Brooks S.Y., Buehler E., Chan A., Chao Q., Chen H., Cheuk R.F., Chin C.W., Chung M.K., Conn L., Conway A.B., Conway A.R., Creasy T.H., Dewar K., Dunn P., Etgu P., Feldblyum T.V., Feng J.-D., Fong B., Fujii C.Y., Gill J.E., Goldsmith A.D., Haas B., Hansen N.F., Hughes B., Huizar L., Hunter J.L., Jenkins J., Johnson-Hopson C., Khan S., Khaykin E., Kim C.J., Koo H.L., Kremenetskaia I., Kurtz D.B., Kwan A., Lam B., Langin-Hooper S., Lee A., Lee J.M., Lenz C.A., Li J.H., Li Y.-P., Lin X., Liu S.X., Liu Z.A., Luros J.S., Maiti R., Marziali A., Militscher J., Miranda M., Nguyen M., Nierman W.C., Osborne B.I., Pai G., Peterson J., Pham P.K., Rizzo M., Rooney T., Rowley D., Sakano H., Salzberg S.L., Schwartz J.R., Shinn P., Southwick A.M., Sun H., Tallon L.J., Tambunga G., Toriumi M.J., Town C.D., Utterback T., Van Aken S., Vaysberg M., Vysotskaia V.S., Walker M., Wu D., Yu G., Fraser C.M., Venter J.C., Davis R.W.Nature 408:816-820(2000) The Arabidopsis Information Resource (TAIR) Empirical analysis of transcriptional activity in the Arabidopsis genome.Yamada K., Lim J., Dale J.M., Chen H., Shinn P., Palm C.J., Southwick A.M., Wu H.C., Kim C.J., Nguyen M., Pham P.K., Cheuk R.F., Karlin-Newmann G., Liu S.X., Lam B., Sakano H., Wu T., Yu G., Miranda M., Quach H.L., Tripp M., Chang C.H., Lee J.M., Toriumi M.J., Chan M.M., Tang C.C., Onodera C.S., Deng J.M., Akiyama K., Ansari Y., Arakawa T., Banh J., Banno F., Bowser L., Brooks S.Y., Carninci P., Chao Q., Choy N., Enju A., Goldsmith A.D., Gurjal M., Hansen N.F., Hayashizaki Y., Johnson-Hopson C., Hsuan V.W., Iida K., Karnes M., Khan S., Koesema E., Ishida J., Jiang P.X., Jones T., Kawai J., Kamiya A., Meyers C., Nakajima M., Narusaka M., Seki M., Sakurai T., Satou M., Tamse R., Vaysberg M., Wallender E.K., Wong C., Yamamura Y., Yuan S., Shinozaki K., Davis R.W., Theologis A., Ecker J.R.Science 302:842-846(2003) Regulation of the CCAAT-binding NF-Y subunits in Arabidopsis thaliana.Gusmaroli G., Tonelli C., Mantovani R.Gene 264:173-185(2001) Regulation of novel members of the Arabidopsis thaliana CCAAT-binding nuclear factor Y subunits.Gusmaroli G., Tonelli C., Mantovani R.Gene 283:41-48(2002)
Other Notes	Small volumes of NFYA3 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NFYA3 purchase	MBS1350443 is a recombinant protein targeting NFYA3. Also known as Recombinant Arabidopsis thaliana Nuclear transcription factor Y subunit A-3. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.



SDS-PAGE of NFYA3 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NFYA3. It may not necessarily be applicable to this product.

NCBI GI #	18410195
NCBI GeneID	843614
NCBI Accession #	NP_565049.1
UniProt Primary Accession #	Q93ZH2
UniProt Secondary Accession #	O23632; Q9SSP3
UniProt Related Accession #	Q93ZH2
GenBank Nucleotide #	NM_105941.7

NCBI Official Full Name	nuclear transcription factor Y subunit A-3
NCBI Official Symbol	NF-YA3
NCBI Official Synonym Symbols	ATHAP2C; F3N23.3; F3N23_3; HAP2C; NF-YA3; nuclear factor Y; subunit A3
UniProt Protein Name	Nuclear transcription factor Y subunit A-3
UniProt Synonym Protein Names	Transcriptional activator HAP2C
Protein Family	Nuclear transcription factor
UniProt Gene Name	NFYA3
UniProt Synonym Gene Names	HAP2C; AtNF-YA-3
UniProt Entry Name	NFYA3_ARATH
NCBI Protein Information	nuclear transcription factor Y subunit A-3
NCBI Summary for NFYA3	Encodes a subunit of CCAAT-binding complex, binds to CCAAT box motif present in some plant promoter sequences. One of three members of this class (HAP2A, HAP2B, HAP2C), it is expressed in vegetative and reproductive tissues.
Research Articles on NFYA3	**1.** The Arabidopsis NF-YA3 and NF-YA8 genes are functionally redundant and are required in early embryogenesis.
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