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GFP (1-238): sc-4304 WB

BACKGROUND

GFP (green fluorescent protein) is the gene product of the jellyfish *Aequorea victoria* that interacts with Ca²⁺ ions and fluoresces in the lower green portion of the visible spectrum. GFP produces a fluorescent product when expressed in prokaryotic cells, without the need for exogenous substrates, making GFP a useful tool for monitoring gene expression and protein localization. The gene for GFP has been isolated and has become a useful tool for making expressed proteins fluorescent by creating chimeric genes composed of different color variants of the GFP gene linked to cDNA encoding proteins of interest. The *in vivo* fluorescent protein chimera can be followed in a living system. Several highly homologous GFP mutants have been developed, making them useful for FACS, fluorescence microscopy, and double-labeling applications. Color mutants from the GFP gene include the enhanced green fluorescent protein cyan fluorescent protein (CFP) and the yellow fluorescent protein (YFP).

REFERENCES

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SOURCE

GFP (1-238) is expressed in *E. coli* as a 53 kDa tagged fusion protein corresponding to amino acids 1-238 of GFP of *Aequorea victoria* origin.

PRODUCT

GFP (1-238) is purified from bacterial lysates (>98%) by glutathione agarose affinity chromatography; supplied as 10 µg in 0.1 ml SDS-PAGE loading buffer.

APPLICATIONS

GFP (1-238) is suitable as a Western blotting control for sc-5384, sc-5385, sc-8334 and sc-9096.

STORAGE

Store at -20° C; stable for one year from the date of shipment.

RESEARCH USE

For research use only, not for use in diagnostic procedures.