



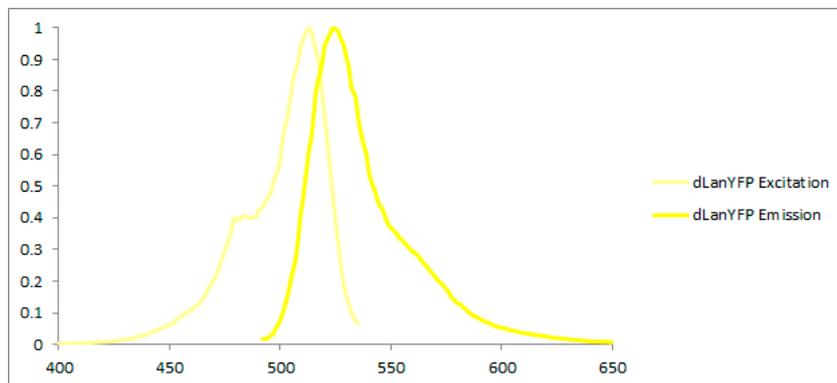
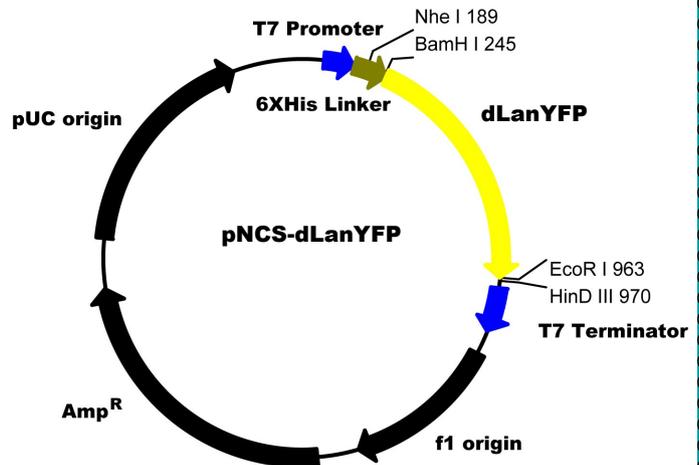
pNCS-dLanYFP

Cat#: ABP-FP-DYPNCS

Allele's pNCS-dLanYFP is a bacterial expression vector that constitutively expresses 6xHis-tagged dLanYFP in *E. coli*. The lancelet fluorescent proteins are a newly discovered, promising group of fluorescent proteins introduced to the market exclusively from Allele Biotech. These proteins were discovered in Lancelets (also called amphioxus), a species of small fish that are usually found buried in sand in shallow parts of temperate or tropical seas. Lancelets are believed to be a very primitive chordate species. Compared to jellyfish and coral, the most common source of virtually all the currently used fluorescent proteins, Lancelets are closer to mammals and their proteins may find great application in human cells and other commonly used animal models. dLanYFP is the dimer version of the tetrameric LanYFP, and is the brightest known fluorescent protein (8 times brighter than EGFP).

Box 2 | Overview

Protein	dLanYFP	EYFP
Excitation Max (nm)	513	514
Emission Max (nm)	524	527
Quantum Yield	0.95	0.61
Extinction coefficient	125,000	84,000
Brightness	119	51
pKa	6	6



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