RedFAST is a small protein tag of 125 amino acids (14 kDa) engineered from the photoactive yellow protein (PYP) from *Halorhodospira halophila*. RedFAST can be fused to the N- or C-terminus of any protein of interest. RedFAST forms non-covalent and reversible fluorescent molecular assemblies with \textsuperscript{16}Coral, enabling to fluorescently label redFAST-tagged proteins in vitro, in live cells and in multicellular organisms.

**RedFAST sequence**

MEHVAFGSEDENTLAKMDDQQLDGLALGAIQLQYNAAGDITGADPKQVIGKNFFKDVAPGTDSPFKEYGFKVGVASGNLNTMFEWMIPTNRGPTVKVHMKKALSGDSYWFVKRV

**DNA sequence coding for redFAST**

atggacatgttggcttttgccagttgagacatcgagaaacactctgcccacaatggagcatggacacagtgaattggggtaaggccaaattccagaggttggttggcttaggcgtacgctgacagaggagacatgtcagatccaaacaggcatggtttggtcagtggacagtattcgtccagagttttaccaggggtttggatgtgtgtggtgcattgggtegtttgtgaaacgggtg

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- EP 3 164 411; JP 2017-527,261; WO 2016/001,437; US 10,138,278 (Fluorogen activating and shifting tag (FAST))
- EP 3 719 007 (Split photoactive yellow protein complementation system and uses thereof)

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