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ETS Family Gene

National Cancer Institute

Source

National Cancer Institute. *ETS Family Gene*. NCI Thesaurus. Code C18326.

The Ets family of transcription factors includes nuclear phosphoproteins that are involved in cell proliferation, differentiation and oncogenic transformation. The family is defined by a conserved DNA-binding domain (the ETS-DBD), which forms a highly conserved, winged, helix-turn-helix structural motif. As targets of the Ras-MAPK signaling pathway, Ets proteins function as critical nuclear integrators of ubiquitous signaling cascades. To direct signals to specific target genes, ETS proteins interact with other transcription factors that determine the binding specificity of ETS proteins to RAS-response elements in target genes.