

Phylogeny	Predicted function	Enzyme type	Aspartate-rich motif
	HAD-like	Bifunctional	DDXXE and DXDTT
	Uncharacterized group 1	Class I – TS	DDXXX
	Trichodiene synthases	Class I – TC	DDSRE / DDSIE
	Uncharacterized group 2	Class I – TS	[D/E]XX[D/E]
	Longiborneol synthases	Class I – TC	DDHFD / DEHFD / NDHFD
	Uncharacterized group 3	Class I – TS	DDIRE
	Presilphiperfolan-8β-ol synthases	Class I – TC	DDQFD / DDPAA
	Pentalenene synthases	Class I – TC	DD(M/V/L)FD
	Uncharacterized group 4	Class I – TS	DDXXD
	Squalene synthases	Class I – PT	DDMTI / DDMTH
	GG Tases 1	Class I – PT	DEXXV / DAXXV
	GG Tases 2	Class I – PT	DEWGE
	FTases	Class I – PT	D[D/E]XX[D/E]
	Uncharacterized group 5	Class I – TS	DXXXE
	Oxidosqualene cyclases	Class II – TC	DCTSE / DCISE
	Diterpene synthases	Bifunctional	DEXXE and DXDD
	GGPP synthases	Class I – PT (IPS)	DDVID and DDMLD
	FPP synthases	Class I – PT (IPS)	DDIMD and DDXXD
	Indole-diterpene synthases	Class I – PT	DDYLD and DDVQD
	Chimeric-like	Chimeric PT-TC PT/TC	D[D/E]XXD and/or D[D/E]XXD