

Table S5. Gene Ontology annotation details for CmFLA proteins in melon.

Gene name	GO number	Categories	Detail
CmFLA1	GO:0006691	biological process	leukotriene metabolic process
CmFLA1	GO:0006693	biological process	prostaglandin metabolic process
CmFLA1	GO:0006749	biological process	glutathione metabolic process
CmFLA1	GO:0008150	biological process	biological process
CmFLA1	GO:0019530	biological process	taurine metabolic process
CmFLA1	GO:0048364	biological process	root development
CmFLA1	GO:0048367	biological process	shoot system development
CmFLA1	GO:0005575	cellular component	cellular component
CmFLA1	GO:0005618	cellular component	cell wall
CmFLA1	GO:0016020	cellular component	membrane
CmFLA1	GO:0016021	cellular component	integral component of membrane
CmFLA1	GO:0046658	cellular component	anchored component of plasma membrane
CmFLA1	GO:0003674	molecular function	molecular function
CmFLA1	GO:0003840	molecular function	gamma-glutamyltransferase activity
CmFLA2	GO:0006084	biological process	acetyl-CoA metabolic process
CmFLA2	GO:0006816	biological process	calcium ion transport
CmFLA2	GO:0007030	biological process	Golgi organization
CmFLA2	GO:0008150	biological process	biological process
CmFLA2	GO:0009651	biological process	response to salt stress
CmFLA2	GO:0016126	biological process	sterol biosynthetic process
CmFLA2	GO:0016132	biological process	brassinosteroid biosynthetic process
CmFLA2	GO:0048767	biological process	root hair elongation
CmFLA2	GO:0005575	cellular component	cellular component
CmFLA2	GO:0005774	cellular component	vacuolar membrane
CmFLA2	GO:0016020	cellular component	membrane
CmFLA2	GO:0016021	cellular component	integral component of membrane
CmFLA2	GO:0046658	cellular component	anchored component of plasma membrane
CmFLA2	GO:0003674	molecular function	molecular function
CmFLA3	GO:0007155	biological process	cell adhesion
CmFLA3	GO:0008150	biological process	biological process
CmFLA3	GO:0005575	cellular component	cellular component
CmFLA3	GO:0003674	molecular function	molecular function
CmFLA4	GO:0008150	biological process	biological process
CmFLA4	GO:0005575	cellular component	cellular component
CmFLA4	GO:0016020	cellular component	membrane
CmFLA4	GO:0016021	cellular component	integral component of membrane
CmFLA4	GO:0003674	molecular function	molecular function
CmFLA5	GO:0008150	biological process	biological process
CmFLA5	GO:0005575	cellular component	cellular component
CmFLA5	GO:0005886	cellular component	plasma membrane
CmFLA5	GO:0031225	cellular component	anchored component of membrane
CmFLA5	GO:0046658	cellular component	anchored component of plasma membrane

Gene name	GO number	Categories	Detail
CmFLA5	GO:0003674	molecular function	molecular function
CmFLA5	GO:0003779	molecular function	actin binding
CmFLA6	GO:0008150	biological process	biological process
CmFLA6	GO:0044699	biological process	single-organism process
CmFLA6	GO:0005575	cellular component	cellular component
CmFLA6	GO:0005886	cellular component	plasma membrane
CmFLA6	GO:0016020	cellular component	membrane
CmFLA6	GO:0016021	cellular component	integral component of membrane
CmFLA6	GO:0031225	cellular component	anchored component of membrane
CmFLA6	GO:0046658	cellular component	anchored component of plasma membrane
CmFLA6	GO:0003674	molecular function	molecular function
CmFLA7	GO:0008150	biological process	biological process
CmFLA7	GO:0044699	biological process	single-organism process
CmFLA7	GO:0005575	cellular component	cellular component
CmFLA7	GO:0005886	cellular component	plasma membrane
CmFLA7	GO:0016020	cellular component	membrane
CmFLA7	GO:0016021	cellular component	integral component of membrane
CmFLA7	GO:0046658	cellular component	anchored component of plasma membrane
CmFLA7	GO:0003674	molecular function	molecular function
CmFLA8	GO:0006691	biological process	leukotriene metabolic process
CmFLA8	GO:0006693	biological process	prostaglandin metabolic process
CmFLA8	GO:0006749	biological process	glutathione metabolic process
CmFLA8	GO:0007155	biological process	cell adhesion
CmFLA8	GO:0007389	biological process	pattern specification process
CmFLA8	GO:0008150	biological process	biological process
CmFLA8	GO:0008361	biological process	regulation of cell size
CmFLA8	GO:0009664	biological process	plant-type cell wall organization
CmFLA8	GO:0009832	biological process	plant-type cell wall biogenesis
CmFLA8	GO:0009926	biological process	auxin polar transport
CmFLA8	GO:0010015	biological process	root morphogenesis
CmFLA8	GO:0019530	biological process	taurine metabolic process
CmFLA8	GO:0040007	biological process	growth
CmFLA8	GO:0005575	cellular component	cellular component
CmFLA8	GO:0009505	cellular component	plant-type cell wall
CmFLA8	GO:0016020	cellular component	membrane
CmFLA8	GO:0016021	cellular component	integral component of membrane
CmFLA8	GO:0046658	cellular component	anchored component of plasma membrane
CmFLA8	GO:0048046	cellular component	apoplast
CmFLA8	GO:0003674	molecular function	molecular function
CmFLA8	GO:0003840	molecular function	gamma-glutamyltransferase activity
CmFLA9	GO:0007155	biological process	cell adhesion
CmFLA9	GO:0008150	biological process	biological process
CmFLA9	GO:0009651	biological process	response to salt stress

Gene name	GO number	Categories	Detail
CmFLA9	GO:0009825	biological process	multidimensional cell growth
CmFLA9	GO:0005575	cellular component	cellular component
CmFLA9	GO:0009897	cellular component	external side of plasma membrane
CmFLA9	GO:0016020	cellular component	membrane
CmFLA9	GO:0016021	cellular component	integral component of membrane
CmFLA9	GO:0046658	cellular component	anchored component of plasma membrane
CmFLA9	GO:0003674	molecular function	molecular function
CmFLA9	GO:0030247	molecular function	polysaccharide binding
CmFLA10	GO:0008150	biological process	biological process
CmFLA10	GO:0005575	cellular component	cellular component
CmFLA10	GO:0005576	cellular component	extracellular region
CmFLA10	GO:0003674	molecular function	molecular function
CmFLA11	GO:0008150	biological process	biological process
CmFLA11	GO:0005575	cellular component	cellular component
CmFLA11	GO:0016020	cellular component	membrane
CmFLA11	GO:0016021	cellular component	integral component of membrane
CmFLA11	GO:0003674	molecular function	molecular function
CmFLA12	GO:0008150	biological process	biological process
CmFLA12	GO:0005575	cellular component	cellular component
CmFLA12	GO:0016020	cellular component	membrane
CmFLA12	GO:0016021	cellular component	integral component of membrane
CmFLA12	GO:0044464	cellular component	cell part
CmFLA12	GO:0071944	cellular component	cell periphery
CmFLA12	GO:0003674	molecular function	molecular function
CmFLA13	GO:0008150	biological process	biological process
CmFLA13	GO:0009651	biological process	response to salt stress
CmFLA13	GO:0009733	biological process	response to auxin
CmFLA13	GO:0009735	biological process	response to cytokinin
CmFLA13	GO:0009737	biological process	response to abscisic acid
CmFLA13	GO:0009739	biological process	response to gibberellin
CmFLA13	GO:0009834	biological process	plant-type secondary cell wall biogenesis
CmFLA13	GO:0090376	biological process	seed trichome differentiation
CmFLA13	GO:0005575	cellular component	cellular component
CmFLA13	GO:0005886	cellular component	plasma membrane
CmFLA13	GO:0016020	cellular component	membrane
CmFLA13	GO:0016021	cellular component	integral component of membrane
CmFLA13	GO:0003674	molecular function	molecular function