

*Genes and Nutrition*

*Electronic Supplementary Material: Online resource 1*

***ELOVL2* gene polymorphisms are associated with increases in plasma eicosapentaenoic and docosahexaenoic acid proportions after fish oil supplement**

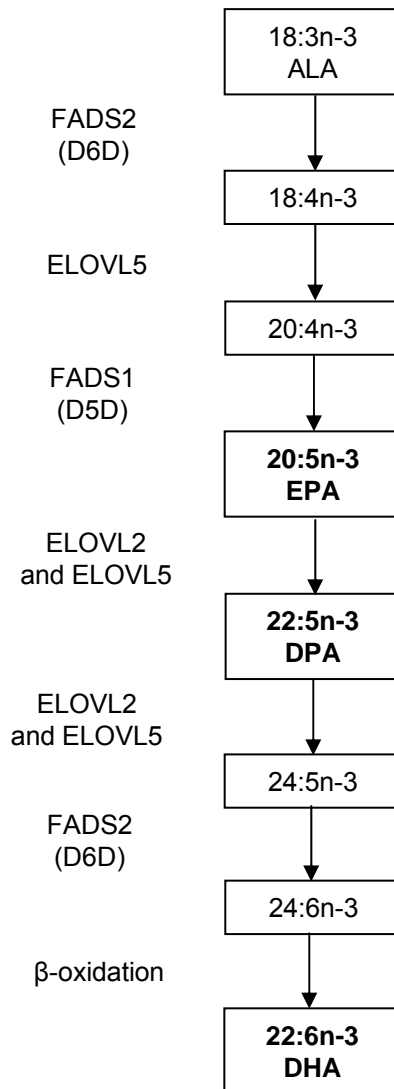
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**Online resource 1** Pathway for synthesis of n-3 LC-PUFA from ALA

The synthesis of n-3 LC-PUFA from ALA proceeds by alternating actions of elongases and desaturases. LC-PUFAs investigated in this study are shown in bold. *ALA*, α-linolenic acid; *D5D*, Delta-5 desaturase; *D6D*, Delta-6 desaturase; *DHA*, docosahexaenoic acid; *DPA*, docosapentaenoic acid; *ELOVL*, Elongation-of-very-long-chain-fatty acids; *EPA*, eicosapentaenoic acid; *FADS*, Fatty acid desaturase