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Ring Finger Domain

National Cancer Institute

Source

National Cancer Institute. *Ring Finger Domain*. NCI Thesaurus. Code C13746.

The RING finger is a specialized type of Zn-finger consisting of 40 to 60 residues, which has the consensus sequence CX₂CX(9-39)CX(1-3)HX(2-3)C/HX₂CX(4-48)CX₂C, that binds two atoms of zinc, and is involved in mediating protein-protein interactions. The RING domain mediates the interaction with the appropriate E2 enzyme. Unlike HECT E3 enzymes that form a thiol-ester with ubiquitin, RING fingers likely mediate ubiquitination by facilitating the direct transfer of ubiquitin from E2 enzyme to lysine residues on the target substrate.