

Ubiquitin conjugating enzymes, also known as E2 enzymes and more rarely as ubiquitin-carrier enzymes, perform the second step in the **ubiquitination** reaction that targets a protein for degradation via the **proteasome**. The ubiquitination process covalently attaches **ubiquitin**, a short protein of 76 amino acids, to a **lysine** residue on the target protein. Once a protein has been tagged with one ubiquitin molecule, additional rounds of ubiquitination form a polyubiquitin chain that is recognized by the proteasome's 19S regulatory particle, triggering the ATP-dependent unfolding of the target protein that allows passage into the proteasome's 20S core particle, where proteases degrade the target into short peptide fragments for recycling by the cell.

see **UBE2C**.

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