

# SCF-FBXL18 ubiquitinates FBXL7

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## Introduction

Reactome is open-source, open access, manually curated and peer-reviewed pathway database. Pathway annotations are authored by expert biologists, in collaboration with Reactome editorial staff and cross-referenced to many bioinformatics databases. A system of evidence tracking ensures that all assertions are backed up by the primary literature. Reactome is used by clinicians, geneticists, genomics researchers, and molecular biologists to interpret the results of high-throughput experimental studies, by bioinformaticians seeking to develop novel algorithms for mining knowledge from genomic studies, and by systems biologists building predictive models of normal and disease variant pathways.

The development of Reactome is supported by grants from the US National Institutes of Health (P41 HG003751), University of Toronto (CFREF Medicine by Design), European Union (EU STRP, EMI-CD), and the European Molecular Biology Laboratory (EBI Industry program).

## Literature references

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Reactome database release: 75

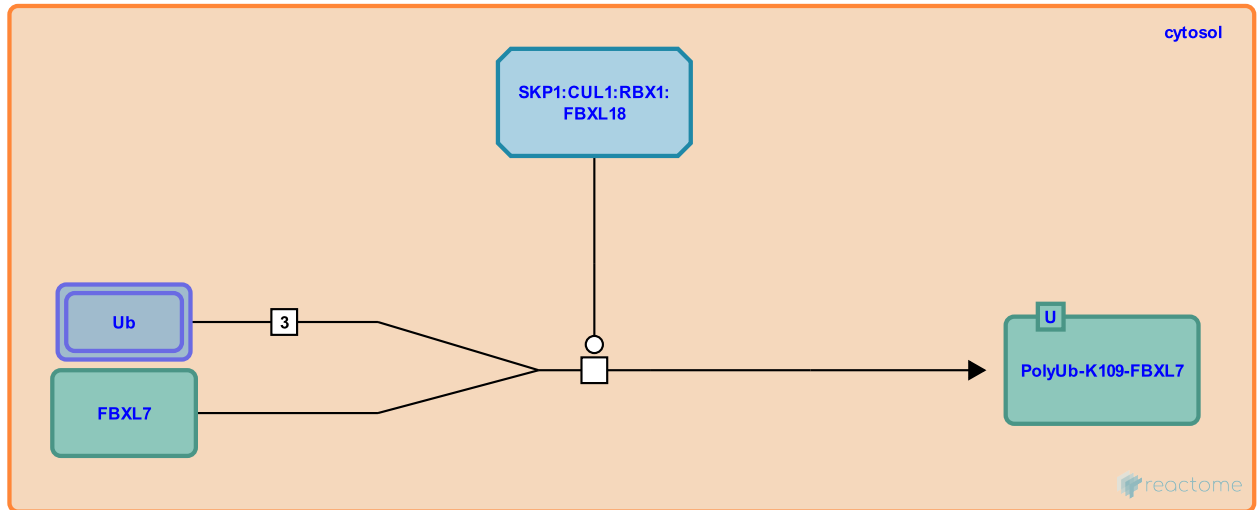
This document contains 1 reaction ([see Table of Contents](#))

## SCF-FBXL18 ubiquitinates FBXL7 [↗](#)

**Stable identifier:** R-HSA-8854051

**Type:** transition

**Compartments:** cytosol



FBXL18, a substrate recognition subunit of the SCF E3 ubiquitin ligase complex can bind to the FQ motif of FBXL7. The E3 ubiquitin ligase complex SCF-FBXL18 (SKP1:CUL1:RBX1:FBXL18) polyubiquitinates FBXL7 on lysine residue K109, targeting it for proteasome-mediated degradation (Liu et al. 2015).

### Literature references

Liu, Y., Lear, T., Zhao, Y., Zhao, J., Zou, C., Chen, BB. et al. (2015). F-box protein Fbx18 mediates polyubiquitylation and proteasomal degradation of the pro-apoptotic SCF subunit Fbx17. *Cell Death Dis*, 6, e1630. [↗](#)

### Editions

2016-01-27	Authored, Edited	Orlic-Milacic, M.
2016-05-13	Reviewed	Lindon, C., Grant, R.