



(a) Query Graph  $Q_1$

Matching order:  $\{u_1, u_2, u_3, u_4\}$

$g_0 : \langle SIRT1, EP300, p53, MDM2 \rangle$
$g_1 : \langle PIK3R1, PIK3CA, PTEN, PTK2 \rangle$
$g_2 : \langle CHEK1, CHEK2, ATR, CDC7 \rangle$

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(b) Answers