**Supplementary information**

**CrisprFusion: A feature fusion model with multi-type input features for sgRNA on-activity prediction**

**Supplementary Table. 1** The Spearman correlation of sgRNA activity prediction on seven high-throughput datasets with seven methods tested at five times.



**Supplementary Table. 2** The Spearman correlation of generalization ability test. Each model was trained on xCas dataset and tested with four independent datasets.



**Supplementary Table. 3** The Spearman correlation of ablation study of MGC module. The experiment compared CrisprFusion with MGC and the combination of concatenation and flatten to show the effectiveness of our feature fusion module.



**Supplementary Table. 4** The Spearman correlation of ablation study of branch 2 to 4 in CrisprFusion. The weight of ablation branch is set to zero by force to maintain the structure of CrisprFusion. The experiment was repeated at 5 times to confirm the significance.