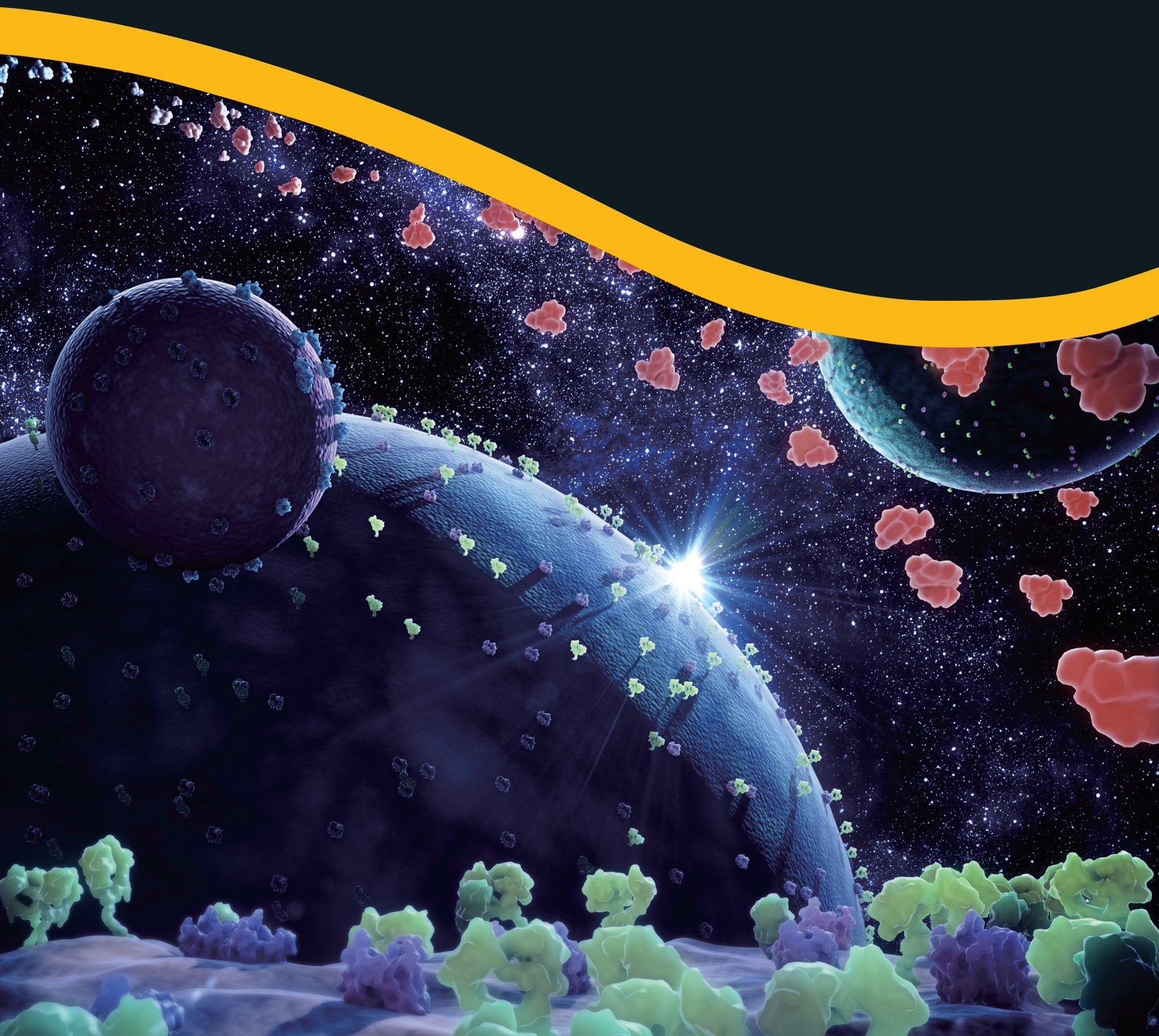


CRISPR/Cas 9 Knock-in 细胞系 助力您的内源生物学研究

测定调控蛋白的丰度 | 下游靶基因调控 | 细胞表面受体的内化



CRISPR/Cas9 Knock-in 内源性标签细胞系

使用 CRISPR/Cas9 基因编辑法将报告基因或蛋白标签敲入感兴趣的内源位点，可以通过标签产生的光信号来便捷地研究由本地启动子表达的蛋白质。与过表达模型相比，带有内源性标签的蛋白质保持了天然的表现遗传调控与天然相互作用蛋白伴侣的化学计量关系，从而改进了分析窗口，减少了人为影响，并在生理相关条件下建立了更精确的蛋白质生物学模型。

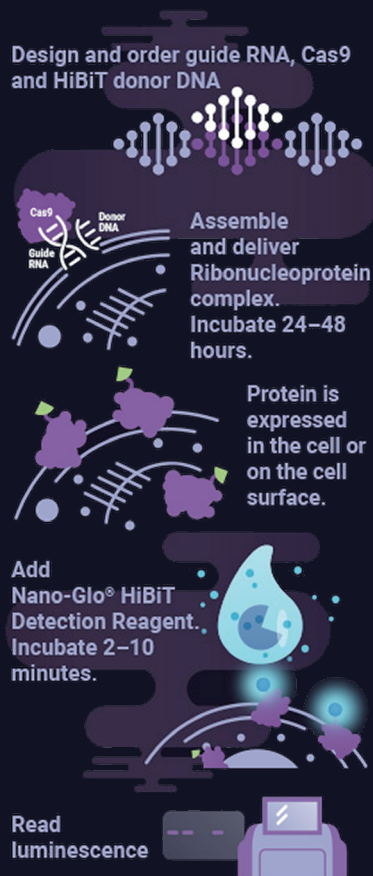
为什么使用内源性生物标签？

- 监测生理表达水平
- 无基因剂量效应
- 天然启动子调控基因及其表现遗传调控保持与天然互作蛋白伴侣的化学计量关系。

什么是 HiBiT 生物标签？

- HiBiT 是一种小的 11 个氨基酸肽，与 LgBiT 大亚单位结合，具有高度亲和力。
- 结合物具有高的萤光素酶活性，在加入底物的情况下会产生明亮的发光信号。

用 CRISPR 敲入标签理解关键的生物学过程



CRISPR Knock-in Process

内源性生物学实验选择工作流程将取决于实验类型、实验室资源和经验以及项目时间表。您可以选择自己设计实验，也可以选择 Promega 开发的通过 CRISPR 编辑的带有针对多种靶标蛋白的细胞系。同时 Promega 的定制开发团队乐意为您提供定制帮助。

更多信息请浏览：

www.promega.com.cn/applications/small-molecule-drug-discovery/crispr-cas9-knock-in-tagging/

Option 1
Do It
Yourself

Option 2
Promega
Cell Lines

CRISPR/Cas9 Knock-In Clones & Pools

NEW	Target	Tag	Term	Background	Clone/ Pool
	CYC1	HiBiT	C	BT-549	C
	FGFR1	HiBiT	C	A549	C
	FGFR1	HiBiT	C	NCI-H1299	C
	GAPDH	HiBiT	C	HEK293	C/P
	KAT6A	HiBiT	N	T-47D	C
	KRAS (G12D)	HiBiT	N	PANC-1	C
	MAP3K7	HiBiT-HaloTag	C	THP-1	C

NEW	Target	Tag	Term	Background	Clone/ Pool
	PIK3CA(E545K)	HiBiT	N	MCF7	C
	PIK3CA(H1047R)	HiBiT	N	T-47D	C
	PBRM1	HiBiT	N	HEK293(LgBiT)	C
	SKP2	HiBiT	C	22Rv1	C
	SOD2	HiBiT-HaloTag	C	T-47D	C
	STC1	HiBiT-HaloTag	C	A549	C
	TASL	HiBiT	C	THP-1	C

Target	Tag	Term	Background	Clone/ Pool
ADAR1(p150)	HiBiT	N	A549	C
AKT1	HiBiT	C	PC-3	C
APEX2	HiBiT	C	HEK293 (LgBiT)	P
AR	HiBiT	C	22Rv1	C
AR	HiBiT	C	LNCaP clone FGC	C
AR(V7)	HiBiT	C	22Rv1	C
ARAF	HiBiT	N	A549	C
ARID1A	HiBiT	N	ES-2	P
ARID1A	HiBiT	C	ES-2	P
ARID1B	HiBiT	N	TOV-21G	P
ARID1B	HiBiT	C	TOV-21G	P
AURKA	HiBiT	C	MOLT-4	P
AURKA	HiBiT	C	PC-3	P
BCL10	HiBiT	C	NCI-H1299	C
BCL11A	HiBiT	C	HEK293 (LgBiT)	C
BCL11A	HiBiT	N	HEK293 (LgBiT)	C
BCL2L1	HiBiT	N	A549	C
BPTF	HiBiT	N	HEK293	P
BPTF	HiBiT	C	HEK293	P
BRAF	HiBiT	N	A549	C/P
BRAF(V600E)	HiBiT	N	A375	C
BRD2	HiBiT	N	HEK293 (LgBiT)	C
BRD3	HiBiT	N	HEK293 (LgBiT)	C
BRD4	HiBiT	N	A549	C
BRD4	HiBiT	N	HEK293	C

Target	Tag	Term	Background	Clone/ Pool
BRD4	HiBiT	N	HEK293 (LgBiT)	C
BRD4	HiBiT	N	PC-3	P
BRD4	NanoLuc	N	HEK293	C
BRD4	HiBiT-HaloTag	N	HEK293 (LgBiT)	C
BRD4 (CRBN KO)	HiBiT	N	HEK293 (LgBiT)	C
BRD4 (VHL KO)	HiBiT	N	HEK293 (LgBiT)	C
BRD7	HiBiT	C	HEK293 (LgBiT)	C
BRD7	HiBiT	C	HEK293	P
BRD7	HiBiT	N	HEK293 (LgBiT)	C/P
BRD9	HiBiT	C	HEK293	P
BRD9	HiBiT	C	HEK293 (LgBiT)	C
BRD9	HiBiT	N	HEK293 (LgBiT)	C/P
BRPF1	HiBiT	N	HEK293	P
BRPF1	HiBiT	C	HEK293	P
BTK	HiBiT	C	K562	C
BTK	HiBiT	C	Ramos	C
CBLB	HiBiT	C	Jurkat	C/P
CCNE1	HiBiT	C	HEK293	C
CCNE1	HiBiT	C	NIH:OVCAR-3	C
CCNK	HiBiT	N	A549	C
CDK1	HiBiT	C	HEK293	C
CDK2	NanoLuc	C	HEK293	C
CDK2	HiBiT	C	HEK293	C
CDK4	HiBiT	C	HEK293	P
CDK4	HiBiT	N	K562	P

Target	Tag	Term	Background	Clone/ Pool
CDK4	NanoLuc	N	K562	C
CDK4	NanoLuc	N	T-47D	C
CDK6	HiBiT	C	K562	P
CDK6	NanoLuc	N	K562	C
CDK6	HiBiT	C	HEK293	C
CDK7	HiBiT	N	HEK293	C
CDK9	HiBiT	N	HEK293	C
CDK9	HiBiT	C	HEK293	P
CDK12	HiBiT	C	A549	C
CREBBP	HiBiT	C	U-2 OS	C/P
CREBBP	HiBiT	C	NCI-H929	P
CREBBP	HiBiT	C	HEK293	P
CREBBP	HiBiT	N	HEK293	P
CSNK1A1	HiBiT	C	HEK293 (LgBiT)	C/P
CTNNB1	HiBiT	C	DLD-1	C
CTNNB1	HiBiT	N	HEK293 (LgBiT)	C
CTNNB1	HiBiT-HaloTag	C	HEK293 (LgBiT)	C
CYC1	HiBiT	C	BT-549	C
deltaN-TP63	HiBiT	N	BxPC-3	C
DDX3X	HiBiT	N	HEK293 (LgBiT)	C
DGKA (alpha)	HiBiT	N	Jurkat	C
DGKB (beta)	HiBiT	N	A204	C
DGKZ (zeta)	HiBiT	N	Jurkat	C
DPP9	HiBiT	C	HEK293 (LgBiT)	C
EGFR	HiBiT	N	A549 (LgBiT)	C
EGFR	HiBiT	N	HeLa	C
EP300	HiBiT	C	HEK293	P
EP300	HiBiT	C	HEK293	P
EP300	HiBiT	C	NCI-H929	P
EP300	HiBiT	N	U-2 OS	C/P
ERBB3(HER3)	NanoLuc	N	AU565	C
ESR1(ER)	HiBiT	N	MCF7	C
EZH2	HiBiT	N	HEK293	C
FANCM	HiBiT	N	HEK293 (LgBiT)	P
FANCM	HiBiT	C	HEK293 (LgBiT)	P
FANCM	HiBiT	C	U-2 OS	C/P
FANCM	HiBiT	C	U-2 OS	C/P
FGFR1	HiBiT	C	A549	C
FGFR1	HiBiT	C	NCI-H1299	C
FOXA1	HiBiT	N	22Rv1	C
GAPDH	HiBiT	C	HEK293	P
GSPT1	HiBiT	N	HEK293 (LgBiT)	C/P
HDAC6	HiBiT	C	HeLa (LgBiT)	C
HMOX1	HiBiT	N	A549	C
HRI (EIF2AK1)	HiBiT	C	HEK293	C
HRI (EIF2AK1)	HiBiT	C	K562	C
IKZF1(Ikaros)	HiBiT	C	Jurkat (LgBiT)	C/P

Target	Tag	Term	Background	Clone/ Pool
IKZF2(Helios)	HiBiT	C	Jurkat (LgBiT)	P
IKZF2(Helios)	HiBiT	N	Jurkat (LgBiT)	C/P
IKZF3(Aiolos)	HiBiT	N	MM.1S	C/P
IL17RA	HiBiT	C	HeLa	P
IL2 (CD38 KO)	NanoLuc	C	Jurkat	C
IL4R	HiBiT	C	THP-1	P
IRAK1	HiBiT	C	NCI-H1299	C
IRAK1	NanoLuc	N	Jurkat	C
IRAK1	NanoLuc	N	THP-1	C
IRAK3	NanoLuc	N	THP-1	C
IRAK4	HiBiT	C	HeLa	C
IRAK4	HiBiT	C	K562 (LgBiT)	C
IRAK4	HiBiT	C	NCI-H1299	C
IRF5	HiBiT	N	THP-1	C
IRF7	HiBiT	N	THP-1	C
JAK1	NanoLuc	C	HEK293	C
JAK2	NanoLuc	C	TF-1	C
JAK2(V617F)	HiBiT	C	Hel 92.1.7	C
JAK2(V617F)	NanoLuc	C	Hel 92.1.7	C
KAT6A	HiBiT	N	T-47D	C
KDM2A	HiBiT	N	U-2 OS	P
KDM2A	HiBiT	N	HEK293 (LgBiT)	P
KLK3	HiBiT	C	22Rv1	C
KRAS (G12C)	HiBiT	N	MIA PaCa-2	C
KRAS (G12D)	HiBiT	N	AsPC-1	C
KRAS (G12D)	HiBiT	N	HEK293	C
KRAS (G12D)	HiBiT	N	PANC-1	C
KRAS (G12D)	HiBiT	N	SW 1990	C
KRAS (G12S)	HiBiT	N	A549	C
KRAS (G12V)	HiBiT	N	SW620	C
KRAS (G12V)	HiBiT	N	HEK293	C
KRAS (G13D)	HiBiT	N	NCI-H647	C
KRAS (WT)	HiBiT	N	NCI-H1299	C
KRAS (WT)	HiBiT	N	HEK293	C
LIG1	HiBiT	C	SK-OV-3	P
MAP2K1	HiBiT	N	NCI-H1299	C
MAP3K7	HiBiT-HaloTag	N	THP-1	C
MAP3K7	HiBiT-HaloTag	C	THP-1	C
MAP3K14	HiBiT-HaloTag	C	HeLa	C
MAP4K1(HPK1)	NanoLuc	N	Jurkat	C
MAP4K1(HPK1)	HiBiT	N	Jurkat	C/P
MAP4K1(HPK1)	HiBiT-HaloTag	N	Jurkat	C
MAPK14	NanoLuc	C	HEK293	C
MAPT(2N4R)	HiBiT	C	IMR-32	C
MAPT	HiBiT	N	IMR-32	C
MARC1	HiBiT-HaloTag	C	HEK293	C
MET	HiBiT	C	A549	C

Target	Tag	Term	Background	Clone/ Pool
MET	HiBiT	C	HeLa	C
Myc (cMyc)	HiBiT	C	HEK293 (LgBiT)	C
MYH3	HiBiT	C	RD	C
NFE2L2(NRF2)	HiBiT	N	A549	C/P
NFE2L2(NRF2)	HiBiT	N	NCI-H460	C
NRAS(WT)	HiBiT	N	HEK293	C
NRAS (Q61R)	HiBiT	N	SW 1271	C
NTN4(NETRIN-4)	HiBiT	C	DLD-1	P
PARP1	HiBiT	C	HeLa	P
PAX8	HiBiT	N	NIH:OVCA-3	P
PBRM1	HiBiT	C	HEK293 (LgBiT)	C
PBRM1	HiBiT	N	HEK293 (LgBiT)	C
PIK3CA	HiBiT	N	T-47D	C
PIK3CA(E545K)	HiBiT	N	MCF7	C
PIK3CA(H1047R)	HiBiT	N	T-47D	C
PIK3C3	HiBiT	N	HEK293 (LgBiT)	C
PKMYT1	HiBiT	N	HEK293 (LgBiT)	P
PKMYT1	HiBiT	C	HEK293 (LgBiT)	P
PLA2R1	HiBiT	N	A431	C
PLK1	HiBiT	N	A549	P
PLK4	HiBiT	C	CHP-212	C
POLQ	HiBiT-HaloTag	C	DLD-1	P
POLQ	NanoLuc	C	DLD-1	C/P
POLQ	NanoLuc	N	DLD-1	P
PRMT5	HiBiT	N	A549	C
PRMT5	HiBiT	N	NCI-H1299	C
PTPN1	HiBiT	N	Jurkat (LgBiT)	C
PTPN2	HiBiT	N	Jurkat (LgBiT)	C
PTPN2 (isoform 2)	HiBiT	C	Jurkat (LgBiT)	C
PTPN6 (SHP1)	HiBiT	C	THP-1	C
PTPN22	HiBiT	N	Jurkat	C
RAF1 (cRAF)	HiBiT	C	A549	C/P
RAF1 (cRAF)	HiBiT	C	Panc 08.13	C
RAF1 (cRAF)	HiBiT	C	Hs 766T	C
RIPK1	HiBiT	N	A375	C
RIPK1	HiBiT	C	A375	C
RIPK2	HiBiT	C	THP-1	C
RUBCN	HiBiT	N	HEK293	C
RUBCN	HiBiT	C	HEK293 (LgBiT)	C
SALL4	HiBiT	N	SK-N-DZ	C

Target	Tag	Term	Background	Clone/ Pool
SETDB1	HiBiT	C	A375	C
SETDB1	HiBiT	N	A375	C
SKP2	HiBiT	C	22Rv1	C
SMAD2	HiBiT-HaloTag	N	THP-1	C
SMAD3	HiBiT	N	HeLa (LgBiT)	C
SMAD3	HiBiT-HaloTag	N	THP-1	C
SMARCA2	HiBiT	C	HeLa	C/P
SMARCA4	HiBiT	C	HeLa	C/P
SMARCA4	HiBiT	C	HeLa (LgBiT)	P
SOD2	HiBiT-HaloTag	C	T-47D	C
SPI1	HiBiT-HaloTag	N	THP-1	C
STAT3	HiBiT	C	HeLa (LgBiT)	C
STAT3-beta	HiBiT	C	HeLa (LgBiT)	C
STAT6	HiBiT	C	Jurkat	P
STAT6	HiBiT	C	Jurkat (LgBiT)	C
STC1	HiBiT-HaloTag	C	A549	C
SUCLA-2	HiBiT	C	22Rv1	C
α-Synuclein (SNCA)	HiBiT	C	HeLa	C
TASL	HiBiT	C	THP-1	C
TEAD2	HiBiT	N	HEK293	C
TNFRSF1A	HiBiT	C	HeLa	P
TREM2	HiBiT	N	THP-1	C
TREM2	HiBiT	C	THP-1	C
TREM2	HiBiT-HaloTag	C	THP-1	C
TRIM63	HiBiT	N	C2C12	P
TYROBP (DAP12)	HiBiT	C	THP-1	C
TYROBP (DAP12)	HiBiT-HaloTag	C	THP-1	C
UBASH3A	HiBiT	C	Jurkat	P
UBASH3A	HiBiT	N	Jurkat	C
UBASH3B	HiBiT	C	Jurkat	C
USP14	HiBiT	C	HEK293 (LgBiT)	C/P
USP14	HiBiT	N	HEK293 (LgBiT)	P
WRN	HiBiT	C	HEK293	C
WRN	HiBiT	N	HCT116	C
XBP1	HiBiT	N	MCF7	C
XBP1s	HiBiT	C	MCF7	C
ZC3H12A	HiBiT	C	Jurkat (LgBiT)	C
ZC3H12A	HiBiT	N	Jurkat (LgBiT)	C
ZC3H12A	HiBiT	C	HeLa (LgBiT)	C

Pool Disclaimer: Due to the heterogenous nature of the cells within a pool, Promega cannot guarantee their use under assay conditions nor their luminescent stability over time.

Clone Disclaimer: Clone selection is based genetically on the perfect knock-in of the tag at the target locus on at least one allele. Promega cannot guarantee homozygosity nor any relevant biological application. While every effort will be made to select clones without indels in the region sequenced, some may be present in the adjacent UTR. These indels will be disclosed to the client.

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更新时间：2025.03