

TransScript® 5'/3' RACE Kit



Providing Innovative Reagents for Life Sciences since 2006

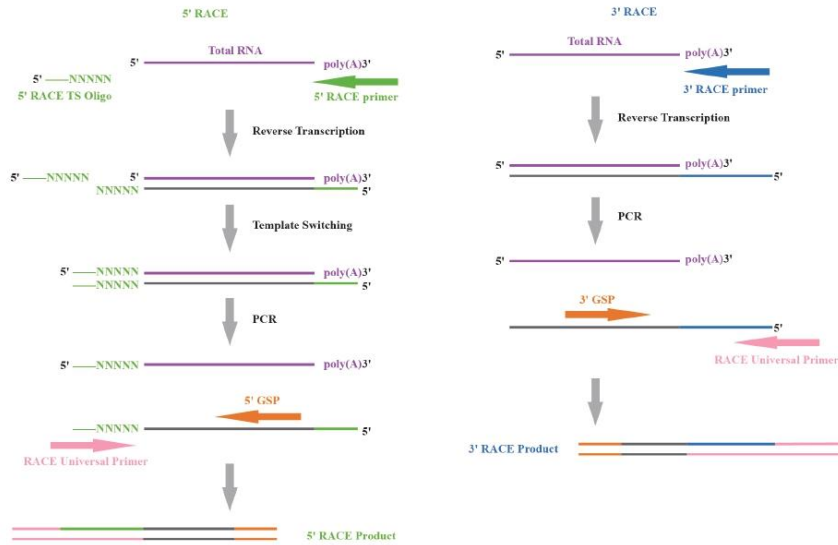
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Product Features

- Short operation time: RACE experiment can be completed within 3 hours.
- Small sample amount required: The minimum amount of RNA is 1 ng.
- Detection of low-expression genes: Suitable for transcripts with expression levels as low as 1.4 TPM (Transcripts Per kilobase Million).
- Detection of long transcripts: Transcript up to 20 kb can be reverse-transcribed.
- Wide template compatibility: Mammals, plants and insects.

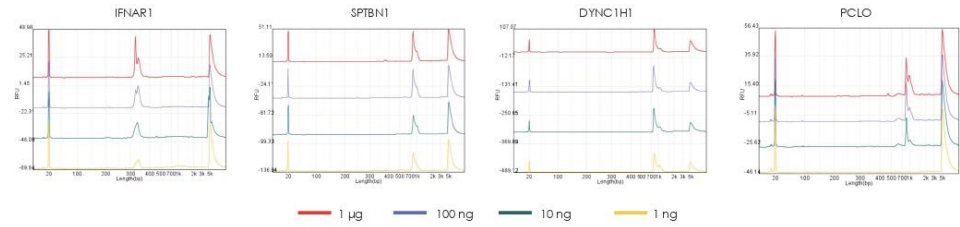
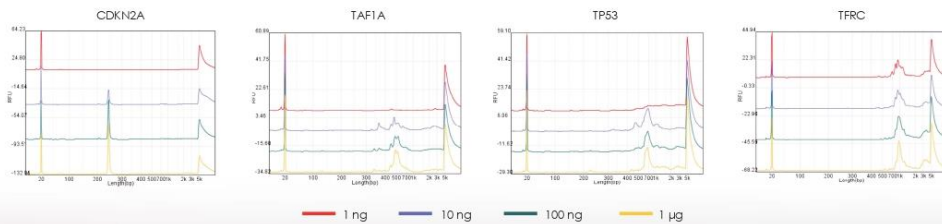
Schematic Diagram



Performance Display

Excellent amplification performance

Gene	CDKN2A	TAF1A	TP53	TFRC	IFNAR1	SPTBN1	DYNC1H1	PCLO
Expression level(TPM)	861.8	6.5	80.4	122	30.7	90.5	10.7	1.4
Transcript length (bp)	1302	2008	2399	4614	6157	10211	19940	19993
Target fragment length (bp)	221	866	437	1096	325	727	753	866
GC%	55.45%	41.19%	53.48%	40.38%	42.34%	50.31%	52.14%	42.63%

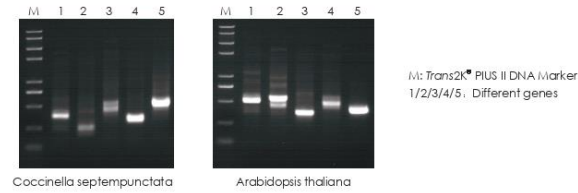


Using total RNA of human HeLa cells as the template, specific 5' RACE gene products can be obtained by using TransGen product for 5' RACE amplification of mRNA transcripts with different abundances, lengths and inputs.

Wide template compatibility

Gene(Coccinella septempunctata)	XM_044898184.1	XM_044894755.1	XM_044896942.1	XM_044892245.1	XM_044897160.1
Transcript length (bp)	2105	1760	4025	1049	3608
Target fragment length (bp)	379	225	499	297	569

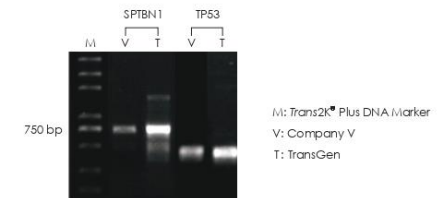
Gene(Arabidopsis thaliana)	BR11	EIN2	FLC	PHYB	PR1
Transcript length (bp)	4375	4851	1042	4497	902
Target fragment length (bp)	518	539	341	461	423



Using Ladybird Sevenstar and Arabidopsis total RNA as templates for 5' RACE amplification of transcripts of different lengths with TransGen products. The results show that TransGen product can amplify specific 5' RACE gene products in different species.

Compare with competitor

Gene	SPTBN1	TP53
Expression level(TPM)	90.5	80.4
Transcript length (bp)	10211	2399
Target fragment length (bp)	727	437



Using 100 ng HeLa cell total RNA as a template for 5' RACE amplification with TransGen and Company V products. The results show that the TransGen product amplification bands are brighter, which facilitates subsequent product identification.

Product Information

Product Name	Cat. No.	Specification
Transcrip [®] 5'/3' RACE Kit	AR101-01	12 rxns

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