


idTALE

idtale.kaust.edu.sa/gene_id.html



جامعة الملك عبد الله
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King Abdullah University of
Science and Technology

in silico designer TALEs

A web tool for TALEN design and target finding

Home Manual ATGC

Design custom TALEN

Search for TALEN target

idTALE

Design a custom TALEN providing gene id

Here we guarantee that TALEN will target the coding region.

Species:

Spacer size: (in base pairs; "from,to" e.g. 16,18 or just 16)

Length of TALE: (as #RVDs; e.g. 13)

Ensembl Gene Id: (e.g. AT4G14276 for Arabidopsis thaliana)

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Design a custom TALEN providing a gene id

REPORTED TARGET SEQUENCES ARE IN 5' - 3' FOR CONFORMATION 1
 AND 3' - 5' FOR CONFORMATION 2

Species	Gene	Transcript	Chromosome	Strand	Spacer [bp]	TALE length [#RVD]
Arabidopsis thaliana	AT4G14210	AT4G14210.1	4	-1	16-18	13

Homodimer
 Heterodimer
 Legend

1	2	3	4	5	6	7	8	9	10	11	12	13
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Update

#NS	#NN	Homodimer	Forward target	Reverse target	Conf	Spacer	Start (e1)	End (NCBI)
3	4	NN NI NN NS NN NS NG NG HD NG NN NS NG	AAGTACTTCTGTT	GAAGGATTCTACT	1	18	8190715	8190758
3	3	HD NN NS NS NS NN HD NG NN NI NI NK NI	CACCTGCTAAAGA	CGAAAACGAAGA	1	18	8191470	8191513
3	2	NG HD NS HD NI NN NI NK NN NI NS NK NS	TCTCAAAGAATGA	TCGCAGAGGAAGC	2	18	8191820	8191863
4	2	NG NS NS NS NG NK NK NI NN NN NS NG NI	TCCATGGAAGCTA	TAGCTGGAGATTA	1	17	8190703	8190745
4	3	NK NG NN NS NI NS NN NI NS NN NS HD NI	GTAGAGGACGACA	GTGTACAAGACCA	1	17	8190773	8190815
4	4	NS NN NI NN NS NS NK NN NN NI HD NS NI	TGAGAAGGACTA	AAATCGAAGCA	2	18	8190944	8190987

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Species:

Spacer size: (in base pairs; "from,to" e.g. 16,18 or just 16)

Max distance to feature: (in base pairs; e.g. 1000)


Sequence:

(e.g. NS-NG-NG-NK-NG-NN-NG-NN-NK-HD-NS-NG-NN)

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idtale.kaust.edu.sa/cgi-bin/idtale/target_hom.cgi



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Search for a TALEN genomic targets (as a homodimer)

YOUR PARAMETERS:
 SPECIES: *Arabidopsis thaliana*
 SPACER: 16-18 [bp]
 TALE LENGTH: 13 [bp]
 DISTANCE TO FEATURE: 1000
 TALE HOMODIMER: NN NI NN NS NN NS NG NG HD NG NN NS NG

Your spec Other Legend

Chromosome	Strand	Start (e!)	End (NCBI)	Conformation	Spacer length	Status	Distance	Gene name	Gene id
1	1	19480725	19480767	2	17	Upstream-NON-CDS	434	AT1G52315	AT1G52315
4	-1	8190715	8190758	1	18	Overlapping-CDS	0	PDS3	AT4G14210.2
4	-1	8190715	8190758	1	18	Overlapping-CDS	0	PDS3	AT4G14210.1

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