

mCxcl1

See [Cxcl1 chemokine \(C-X-C motif\) ligand 1](#) in the Gene database
cxcl1 reference sequences [Transcript \(1\)](#) [Protein \(1\)](#)

mouse Cxcl1

```
ATGATCCCAGCCACCCGCTCGCTTCTCTGTGCAGCGCTGCTGCTGCTGGCCACCAGCCGCC  
TGGCCACAGGGGCGCCTATCGCCAATGAGCTGCGCTGTCAGTGCCTGCAGACCATGGCTG  
GGATTCACCTCAAGAACATCCAGAGCTTGAAGGTGTTGCCCTCAGGGCCCCACTGCACCC  
AAACCGAAGTCATAGCCACACTCAAGAATGGTCGCGAGGCTTGCCTTGACCCTGAAGCTC  
CCTTGGTTC
```

	score	sequence
Guide #1	94	CACACTCAAGAATGGTCGCG AGG
Guide #2	89	CAGCGCAGCTCATTGGCGAT AGG
Guide #3	87	CTCGCGACCATTCTTGAGTG TGG
Guide #4	84	CGATAGGCGCCCCTGTGGCC AGG
Guide #5	84	GTGTGGCTATGACTTCGGTT TGG

Oliga:

mCxcl1_CRISPR_A: CACCG CAGCGCAGCTCATTGGCGAT

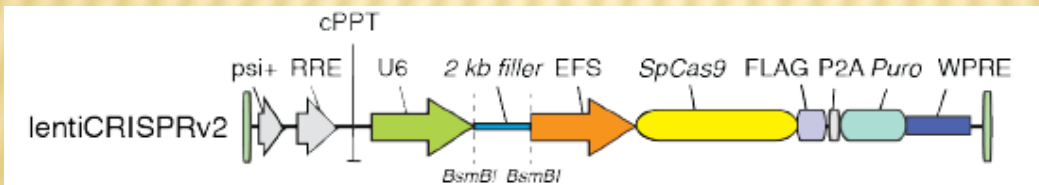
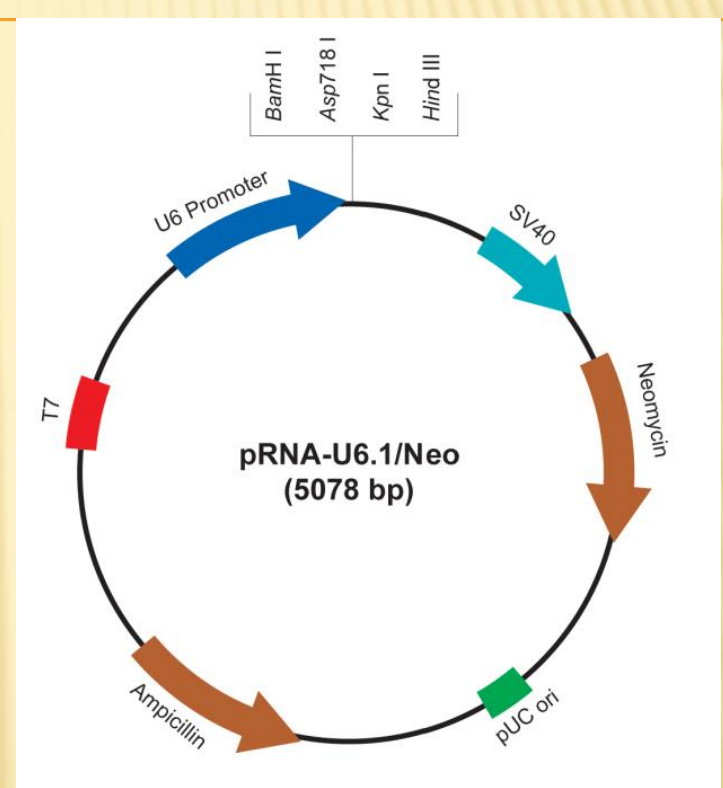
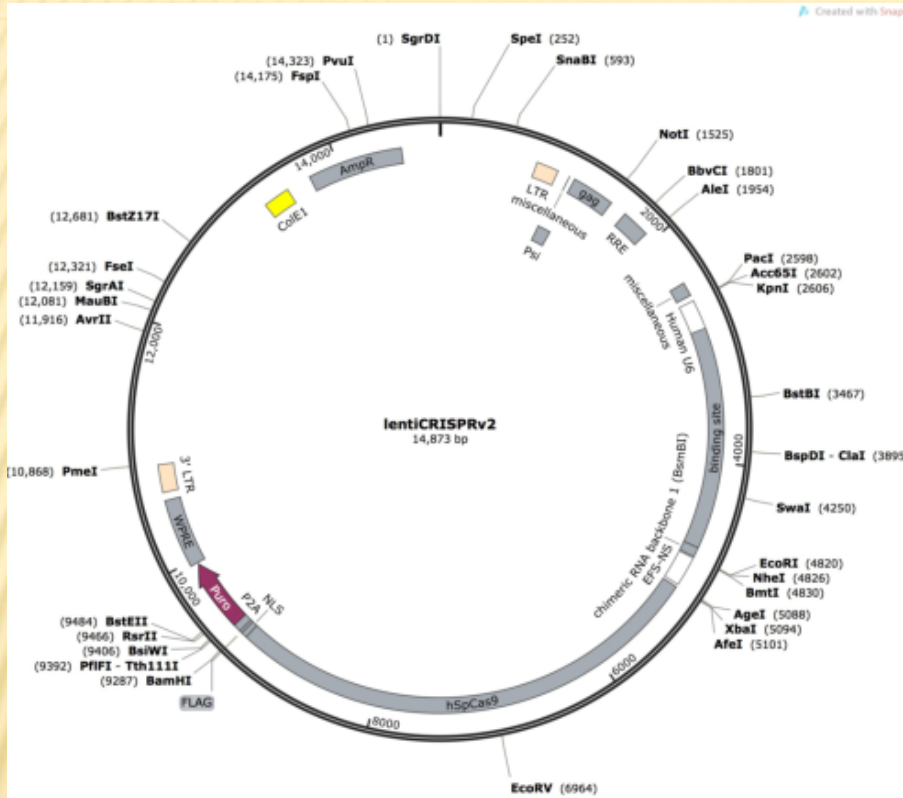
mCxcl1_CRISPR_B: AAAC ATCGCCAATGAGCTGCGCTG C

8 siRNA Sequences (Up to 10 top scoring siRNA sequences are reported, sorted by the Start position and ranked as ★★★★★ to ★★☆☆☆ to indicate knockdown probability). Select the sequence to order and click "Continue".

Select	No.	Start	Sequence(DNA)	Region	GC%	Tuschl's pattern match*	Rank ¹
<input type="checkbox"/>	1	242	GCACCCAAACCGAAGTCAT	ORF	52.64		★★★★★
<input type="checkbox"/>	2	243	CACCCAAACCGAAGTCATA	ORF	47.37		★★★★☆
<input type="checkbox"/>	3	244	ACCCAAACCGAAGTCATAG	ORF	47.37		★★★★☆
<input type="checkbox"/>	4	251	CCGAAGTCATAGCCACACT	ORF	52.64	BD	★★★★☆
<input type="checkbox"/>	5	257	TCATAGCCACACTCAAGAA	ORF	42.11		★★★★☆
<input type="checkbox"/>	6	258	CATAGCCACACTCAAGAAT	ORF	42.11		★★★★☆
<input type="checkbox"/>	7	262	GCCACACTCAAGAATGGTC	ORF	52.64	BCD	★★★★☆
<input type="checkbox"/>	8	300	TGAAGCTCCCTTGGTTCAG	ORF	52.64		★★★★☆

BamH I

GATCCGCACCCAAACCGAAGTCATTTCAAGAGAA**TGACTTCGGTTTGGGTGCTTTTTTGGAAA**
 GCCGTGGGT**TTGGCTTCAGTA**AAGTTCTCT**ACTGAAGCCAAACCCACGAAAAAACCTTTTCGA**
Hind III



shRNA i gRNA

Spojení oligonukleotidů

Štěpení vektorů

Eluce fragmentů DNA z agarozového gelu

Ligace

Příprava kompetentních buněk E. coli

Transformace E. coli ligační směsí

Expanze klonů E. coli

Izolace plazmidové DNA

Ověření začlenění oligonukleotidu do vektoru (PCR, **sekvenace**)

Transfekce eukaryotických buněk

shRNA

SDS elektroforéza proteinů a imunobloting

gRNA

Selekce rezistentních buněk

Klonování rezistentních buněk metodou limitního ředění a expanze klonů

SDS elektroforéza proteinů a imunobloting

Izolace genomové DNA

PCR a klonování do sekvenačního vektoru

Sekvenace + analýza významu mutací

Klonování pro sekvenaci

Genom DNA:

CATGTGTGCTGGGGTTACAGCATCCACTACCACTCCGGGTATCTGCACACTGGTT
CCTGTTTAGCAAGCATGCTATCAGTCAAGCAACAGCAGCAGCCAGAGGACAACT
CATCTGACTGAGACACTTTCGGAATCTCCTTTGCTAGTGTCTGTGCATGTGACAT
TTCGCCATGGGAAACAACTGTTACAACGTGGTGGTCATTGTGCTGCTGCTAGTGG
GCTGTGAGAAGGTGGGAGCCGTGCAGAACTCCTGTGATAACTGTCAGCCTGGTAA
GTGCCAAAGTGACATGACTGTTGAAGACTCAGTTCAGTTAGCCTGGTGTCTTAGT
TAGGGTTCGTTGCTGTGAAGAGACACCACGGCCAAGGCAGCTCTTATAAAGAAC
AGCATTTAATTGGGGCTGGCTTACAGGCTCAGAGG

AAACATGTGCAGTCCTAAAATGCCAGTCATTGTGATGCCAGGAGGACAGACAGA
ATATTTATTTTGATATCCTCGAAAATGTCACAATGCTGAGAGAACTGGTCATTTGT
TGTCAGACACAAATGCCTGTGACAATTCTTGCAGGTACTTTCTGCAGAAAATACA
ATCCAGTCTGCAAGAGCTGCCCTCCAAGTACCTTCTCCAGCATAGGTGGACAGCC
GAACTGTAACATCTGCAGAGTGTGTGCAGGTAGGTCAGTCTGTCTGTCTGTCTGT
CTGTCTGGAAAGGAGAGCTTGCTGTTGCCAGGCTAGACTGGAACCTGTGACTCT
TGTTCCTCAGCCTCCCAAGTCTGGAGGTTTGCTTTAGAGGGGAGACATCTTCATCT
TTAAGACCATTGGGCAGAGTTAAGCTTTGATCCG