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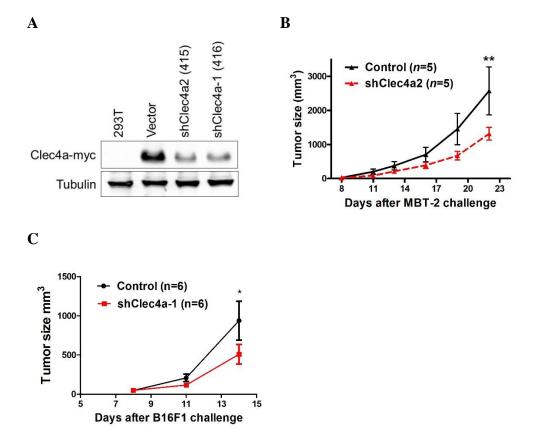
Supplemental Information

Skin Delivery of Clec4a Small Hairpin RNA

Elicited an Effective Antitumor Response

by Enhancing CD8⁺ Immunity *In Vivo*

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Supplemental Figure 1. The knockdown efficacy of shClec4a2 (415), which specifically target the mRNA sequence of Clec4a2 but not Clec4a1 or Clec4b1, was examined in 293T cells co-transfected with Clec4a2-myc. The protein expression of Clec4a2-myc was measured using immunoblotting. 293T, parental control. Vector, pLKO_AS1+ Clec4a2-myc. shClec4a, Clec4a2 shRNA+ Clec4a2-myc. A pLKO_AS1 plasmid served as the vector control. Tubulin was used as an internal control. (**B**) Mice bearing MBT-2 tumor cells were treated with shClec4a2 (415) via a gene gun. The tumor size was examined in the C3H/HeN mice on the indicated days (**P < 0.005 on day 22, pLKO_AS1 versus shClec4a2). (**C**) Mice received B16F1 tumor cells were treated with shClec4a2). (**C**) Mice received B16F1 tumor cells were treated with shClec4a-1 via a gene gun. The tumor size was examined in the C57BL/6 mice on the indicated days. (*P < 0.05 on day 14, pLKO_AS1 versus shClec4a-1).

Sequences producing significant alignments: Select: <u>All None</u> Selected:0

1 Alignments Download - GenBank Graphics Distance tree of results						
Description		Total score		E value	Ident	Accession
Transcripts						
PREDICTED: Mus musculus C-type lectin domain family 4, member a2 (Clec4a2), transcript variant X2, mRNA	42.1	42.1	100%	0.003	100%	XM 011241364.2
PREDICTED: Mus musculus C-type lectin domain family 4, member a2 (Clec4a2), transcript variant X1, mRNA	42.1	42.1	100%	0.003	100%	XM 006506155.
Mus musculus C-type lectin domain family 4, member a2 (Clec4a2), transcript variant 1, mRNA	42.1	42.1	100%	0.003	100%	NM 001170333
Mus musculus C-type lectin domain family 4, member a2 (Clec4a2), transcript variant 3, mRNA	42.1	42.1	100%	0.003	100%	NM 001170332
Mus musculus C-type lectin domain family 4, member a2 (Clec4a2), transcript variant 2, mRNA	42.1	42.1	100%	0.003	100%	NM 011999.4
PREDICTED: Mus musculus C-type lectin domain family 4, member b1 (Clec4b1), transcript variant X1, mRNA	34.2	34.2	100%	0.64	95%	XM 006506570.
Mus musculus C-type lectin domain family 4, member b1 (Clec4b1), transcript variant 2, mRNA	34.2	34.2	100%	0.64	95%	NM 027218.3
Mus musculus C-type lectin domain family 4, member b1 (Clec4b1), transcript variant 1, mRNA	34.2	34.2	100%	0.64	95%	NM 001190310
PREDICTED: Mus musculus TSC22 domain family, member 3 (Tsc22d3), transcript variant X5, mRNA	28.2	28.2	66%	40	100%	XM 006528503

Supplemental Figure 2. The BLAST result of shClec4a-2. The target sequence of shClec4a-2 was searched by using Standard Nucleotide BLAST on NCBI. The mouse genomic and transcript databases were used. The black frame represented the prediction of the shClec4a-2 target sequence to identify 100% of the sequence of the Clec4a2 mRNA. The red frame represented the prediction of the shClec4a-2 target sequence of the Clec4b1 mRNA.