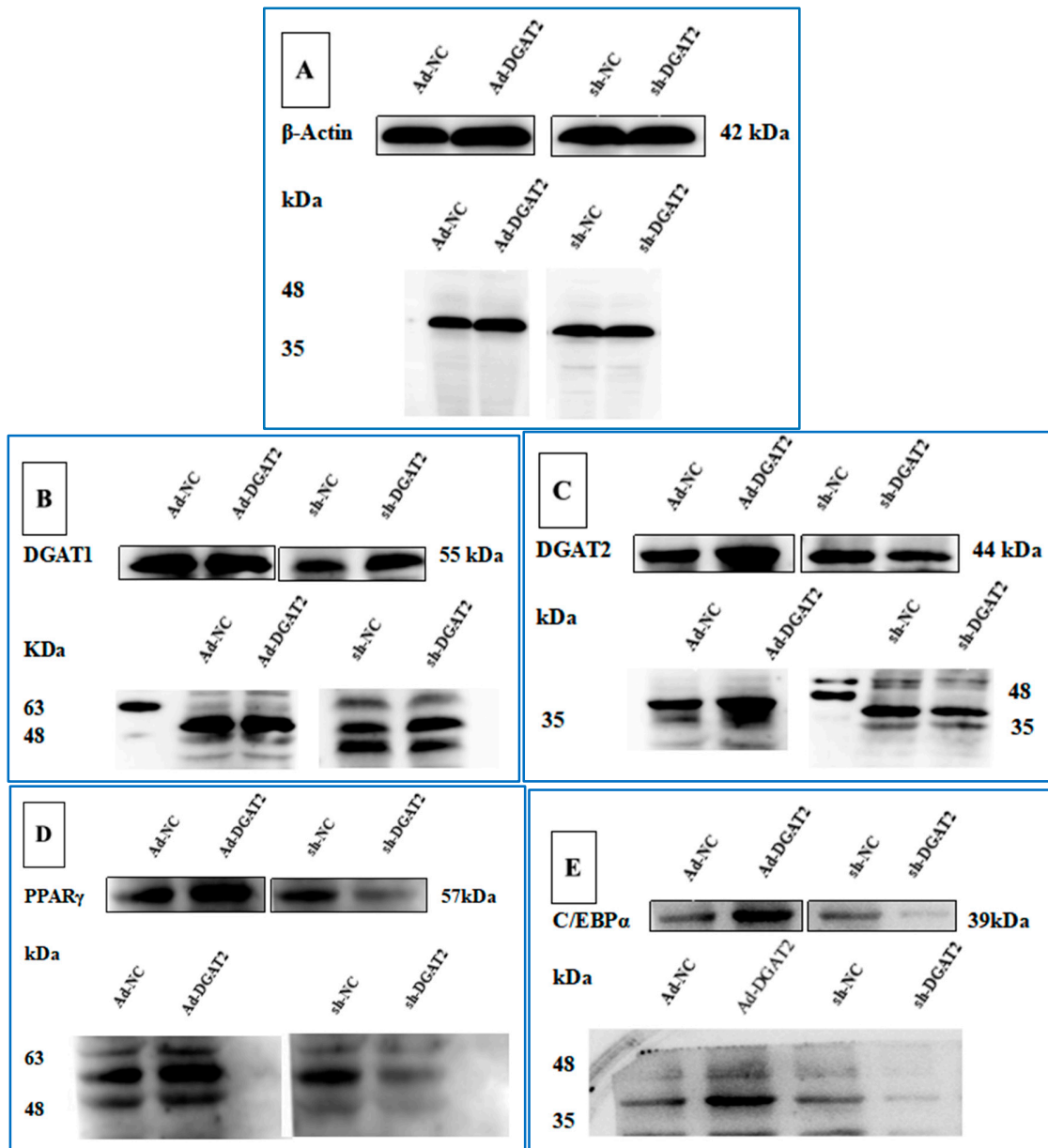
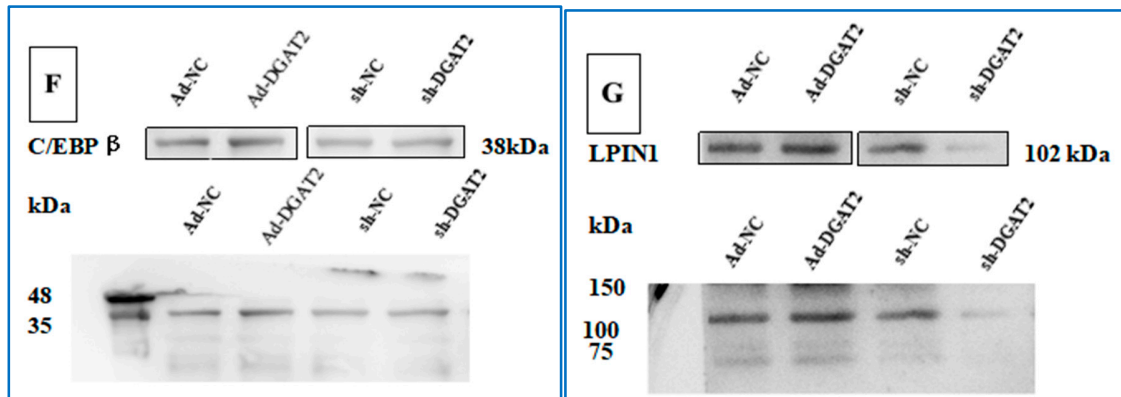


# Overexpression of DGAT2 Regulates the Differentiation of Bovine Preadipocytes

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**Figure S1.** The original figure of the upper blot membrane of Figure 4D and 5D. The original western blot of  $\beta$ -actin (A), DGAT1 (B), DGAT2 (C), PPAR $\gamma$  (D), C/EBP $\alpha$  (E), C/EBP $\beta$  (F), LPIN1 (G) protein in adipocytes transfected with Ad-DGAT2/Ad-NC and sh-DGAT2/sh-NC.

**Table S1:** Sequence information of PCR primers and Full length of CDS region sequence of DGAT2 gene in Yanbian cattle

Genes	Primer sequences(5→3')	Product size/bp	Annealing temperature/°C	GenBank Accession No.
DGAT2	F:TGAACCGGGACACCATAGACTACTTG R:TCAGTTCACCTCCAGGACCTCG	1086	65	NM_205793.2
Sequence	ATGAAGACCCTCATAGCCGCTACTCCGGGGTCCTGCGAGGCACTGGCTCCAGCATCCT CTCTGCCCTCCAGGACCTGTTTTCTGTCACTTGGCTCAATAGGTCCAAGGTAGAGAAGCA GCTCCAAGTCATCTCGGTGCTACAATGGGTCCTGTCTTTCCTCGTGCTGGGAGTGGCCTG CAGCGTCATCCTCATGTACACATTCTGCACCGATTGCTGGCTCATTGCCGTGCTCTACTTC ACCTGGCTGGTGTGTTGACTGGAACACACCCAAGAAAGGTGGCAGGAGGTACAGTGGG TCCGAAACTGGGCTGTGTGGCGCTACTTTCGAGACTACTTCCCATTACAGCTGGTGAAGA CACACAACCTTACTGACCAGCAGGAACTACATCTTTGGGTACCATCCCCATGGCATCATG GGCTGGGTGCCTTCTGCAACTTCAGCACAGAGGCCACAGAAGTAAGCAAGAAGTTCCC TGGCATAAGGCCCTACCTGGCCACGCTGGCCGGCAACTTCCGGATGCCAGTGCTGCGGG AGTACCTGATGTCTGGAGGCATCTGCCAGTGAACCGGGACACCATAGACTACTTGCTTT CAAAGAATGGGAGTGGCAATGCCATCATCATCGTGTTGGGGGGCGCGGCTGAATCCCTG AGCTCCATGCCCCGCAAGAATGCAGTCACCTGCGCAATCGCAAGGGCTTTGTGAAACT GGCCCTGCGCCATGGAGCCGACCTGGTTCCCACCTACTCCTTTGGGGAGAATGAGGTGT ACAAGCAGGTGATCTTTGAGGAGGGCTCCTGGGGCCGGTGGGTGCAGAAGAAGTTCCA GAAGTACATTGGCTTTGCCCCATGCATCTTCCATGGTCGAGGCCTCTTCTCCTCTGACACC TGGGGGCTGGTGGCCTACTCCAAGCCCATCACCAGTGTCTGTGGGCGAGCCCATACCAT CCCCAGGCTGGAGCGCCCGACGCAGCAGGACATCGACCTGTACCACGCCATGTACGTG CAAGCCCTGGTGAAGCTCTTCGACCAGCATAAGACCAAGTTCGGCCTCCCGGAGACCGA GGTCTGGAGGTGAACTGA			

**Table S2.** Information of clean data.

<b>Sample</b>	<b>Trimmed_Read_Number</b>	<b>Trimmed_Bases</b>	<b>Useful_read%</b>	<b>Useful_bases%</b>
Ad-DGAT2-1	41957774	6293666100	90.49	90.49
Ad-DGAT2-2	46692432	7003864800	90.25	90.25
Ad-DGAT2-3	45059410	6758911500	89.56	89.56
Ad-NC-1	46123688	6918553200	90.33	90.33
Ad-NC-2	48540484	7281072600	90.97	90.97
Ad-NC-3	47456602	7118490300	91.47	91.47
sh-NC-1	47383396	7107509400	90.52	90.52
sh-NC-2	43421586	6513237900	90.92	90.92
sh-NC-3	41991732	6298759800	90.15	90.15
sh-DGAT2-1	50881030	7632154500	89.97	89.97
sh-DGAT2-2	41109628	6166444200	90.9	90.9
sh-DGAT2-3	43272494	6490874100	88.08	88.08

**Table S3.** Summary of sequencing data and reference genome comparison.

<b>Sample</b>	<b>Clean Reads</b>	<b>Total Mapped</b>	<b>Multiple Mapped</b>	<b>Uniquely Mapped</b>	<b>Map Events</b>	<b>Mapped to Gene</b>	<b>Mapped to InterGene</b>	<b>Mapped to Exon</b>
sh-NC-1	47383396	45346415 (95.70%)	1243402 (2.74%)	44103013 (97.26%)	44103013	37110627 (84.15%)	6992386 (15.85%)	33656706 (90.69%)
sh-NC-2	43421586	41492311 (95.56%)	1132667 (2.73%)	40359644 (97.27%)	40359644	33788214 (83.72%)	6571430 (16.28%)	30673434 (90.78%)
sh-NC-3	41991732	40078263 (95.44%)	1032503 (2.58%)	39045760 (97.42%)	39045760	32844563 (84.12%)	6201197 (15.88%)	29889150 (91.00%)
Ad-NC-1	46123688	43994995 (95.38%)	1400082 (3.18%)	42594913 (96.82%)	42594913	35641438 (83.68%)	6953475 (16.32%)	32542118 (91.30%)
Ad-NC-2	48540484	46377795 (95.54%)	1383335 (2.98%)	44994460 (97.02%)	44994460	37616399 (83.60%)	7378061 (16.40%)	34420035 (91.50%)
Ad-NC-3	47456602	45389952 (95.65%)	1643704 (3.62%)	43746248 (96.38%)	43746248	36577634 (83.61%)	7168614 (16.39%)	33848556 (92.54%)
Ad-DGAT2-1	41957774	40124294 (95.63%)	1200506 (2.99%)	38923788 (97.01%)	38923788	32390894 (83.22%)	6532894 (16.78%)	29422088 (90.83%)
Ad-DGAT2-2	46692432	44489772 (95.28%)	1303662 (2.93%)	43186110 (97.07%)	43186110	35978292 (83.31%)	7207818 (16.69%)	32729531 (90.97%)
Ad-DGAT2-3	45059410	43080975 (95.61%)	1329255 (3.09%)	41751720 (96.91%)	41751720	34822208 (83.40%)	6929512 (16.60%)	31740502 (91.15%)
sh-DGAT2-1	50881030	48642046 (95.60%)	1740615 (3.58%)	46901431 (96.42%)	46901431	38936622 (83.02%)	7964809 (16.98%)	35376210 (90.86%)
sh-DGAT2-2	41109628	39315425 (95.64%)	1004356 (2.55%)	38311069 (97.45%)	38311069	31978328 (83.47%)	6332741 (16.53%)	29086478 (90.96%)
sh-DGAT2-3	43272494	41349412 (95.56%)	1126742 (2.72%)	40222670 (97.28%)	40222670	33893908 (84.27%)	6328762 (15.73%)	30933390 (91.27%)