

Supplementary File

***DGATI* polymorphism in Riverine buffalo, Swamp buffalo and crossbred buffalo**

Jun Li¹, Shenhe Liu¹, Zipeng Li¹, Shujun Zhang¹, Guohua Hua¹, Angela Salzano²,
Giuseppe Campanile², Bianca Gasparri², Aixin Liang^{1*}, Liguang Yang^{1*}

¹Key Laboratory of Agricultural Animal Genetics, Breeding and Reproduction of
Ministry of Education, College of Animal Science and Technology, Huazhong
Agricultural University, Wuhan 430070, People's Republic of China

²Department of Veterinary Medicine and Animal Production, Federico II University,
Naples, Italy

Short title: *DGATI* gene and milk production traits

* ***Corresponding author:*** Aixin Liang

Phone: +86 27 8751 5280; Fax: +86 27 8751 5280;

E-mail: lax.pipi@mail.hzau.edu.cn

* ***Corresponding author:*** Liguang Yang

Phone: +86 27 8728 1813; Fax: +86 27 8728 1813;

E-mail: yangliguo2006@qq.com

Postal address:

No.1 Shizishan Street Hongshan District Wuhan 430070 P.R.China

Table S1 Primer sequence of *DGAT1* gene

Primer name	Sequence(5'-3')
DGAT1-1F	CCGTGAGCTACCCCGACAAC
DGAT1-1R	CCAGAAGTAGGTGATAGACTCGGAG
DGAT1-2F	CTCCGAGTCTATCACCTACTTCTGG
DGAT1-2R	TGAGGCAAAGCAGTCCAACA
DGAT1-3F	CAGTGGCGTAGTAGAGGCG
DGAT1-3R	AGGGGTCAAAGGTTAGGGGT
DGAT1-4F	AGCTACGCCTCTCAGGACTC
DGAT1-4R	TCAAAGGTTAGGGGTCACGC
DGAT1-5F	CATGGGTGGTTTGAATGGCG
DGAT1-5R	AGCTACACGAGCACAGACAC
DGAT1-6F	AGTGTCCGTCTCCACTCTCC
DGAT1-6R	CATTCACCCAGCTACACGA
DGAT1-7F	GAGTCAGAGCTTGCCGTGAG
DGAT1-7R	GAAGCCCTTCAGGCAGAGG
DGAT1-8F	ATGGAGGCCACTGTCCTGAG
DGAT1-8R	GCAGGAGGAAGCCCTTCAG
DGAT1-9F	AGCTGACTCTGCGCTTTTGT
DGAT1-9R	GGTGATAGACTCGGAGTTCCTG
DGAT1-10F	TCTCCTACCGGGACGTCAAC
DGAT1-10R	TGGCCTTCTTACCTGCCAAA
DGAT1-11F	TCTCCTACCGGGACGTCAAC
DGAT1-11R	GAGGAAGCAAGTGGACAGTGA
DGAT1-12F	TGGCTGACAGCGTTATGTCC
DGAT1-12R	CCCTAAGCCCAACTGGTAAGG

Table S2 Allele frequencies of the two SNPs at the *DGAT1* gene in three buffalo breeds.

SNP	Position	Allele	Allele frequency		
			Riverine buffalo	Swamp buffalo	Crossbred buffalo
g.8330T>C	Exon13	C	0.88	1	0.88
		T	0.12	0	0.12
g.9046T>C	Exon17	C	0.29	0.05	0.21
		T	0.71	0.95	0.79