

Instruction	OP Code	ALU Source A	ALU Source B	ALU Operation	Destenation	Branch
<code>nop</code>	0x00	DNA	DNA	ALU_NOP	DNA	×
<code>j</code>	0x01	DNA	DNA	ALU_NOP	DNA	jump
<code>bne</code>	0x06	in1	in2	ALU_BNE	DNA	on not equal
<code>lw</code>	0x28	in2	imm	ALU_ADD	out1	×
<code>sw</code>	0x34	in2	imm	ALU_ADD	DNA	×
<code>add</code>	0x40	in1	in2	ALU_ADD	out1	×
<code>addu</code>	0x42	in1	in2	ALU_ADD	out1	×
<code>addiu</code>	0x43	in1	imm	ALU_ADD	out1	×
<code>andi</code>	0x4f	in1	imm	ALU_AND	out1	×
<code>sll</code>	0x55	in1	shamt	ALU_SHTL	out1	×
<code>slti</code>	0x5c	in1	imm	ALU_SLT	out1	×
<code>syscall</code>	0xa0	DNA	DNA	ALU_NOP	DNA	×
<code>lui</code>	0xa2	DNA	imm	ALU_SHTL	out1	×