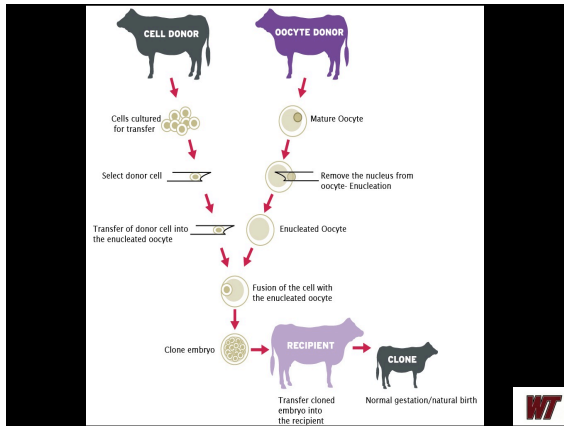


Further DNA-based selection

- Tissue sample from clone candidates are sent to a lab that processes DNA looking for growth, quality, and palatability traits
- **Prime and YG 1 occur at rate of 1 per 3,333**
- **We refine that to a rate of 1 per 15,555 for cloning**

Somatic Cell Nuclear Transfer




PHENOTYPIC	
Sex:	Steer
HCW:	782
12 th rib fat:	0.44
REA:	15.9
REA/HCW:	2.03
YG:	1.98
Marbling:	Slab ⁷⁰
Hide:	51% Blk

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GENOTYPIC	
Color:	EDED (Homozygous black)
Feed efficiency:	MVP = -0.76 (10 percentile)
Marbling:	MVP = +0.15 (30 percentile)
Tenderness:	MVP = -0.59 (6 percentile)
Palatability:	MVP = 429 (8 percentile)

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86%
Angus

14%
Zebu


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PHENOTYPIC	
Sex:	Heifer
HCW:	708
12 th rib fat:	0.16
REA:	15.5
REA/HCW:	2.19
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Marbling:	Slab ¹⁰
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GENOTYPIC -	
Color:	E=ED (Black, Wild type carrier)
Feed efficiency:	MVP = -0.18 (30 percentile)
Marbling:	MVP = +0.41 (5 percentile)
Tenderness:	MVP = -0.28 (30 percentile)
Palatability:	MVP = 454 (6 percentile)

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PHENOTYPIC	
Sex:	Heifer
HCW:	689
12 th rib fat:	0.36
REA:	14.5
REA/HCW:	2.10
YG:	1.88
Marbling:	Slab ⁷⁰
Hide:	51% Blk



GENOTYPIC -	
Color:	EDED (Homozygous black)
CED:	MVP = 5.4 (49 percentile)
BW:	MVP = +3.5 (96 percentile)
WW:	MVP = +61 (12 percentile)
Dry matter intake:	MVP = -2.35 (2 percentile)
Net matter intake:	MVP = -0.52 (20 percentile)
CEM:	MVP = +4.0 (38 percentile)
MA:	MVP = +28 (14 percentile)
CW:	MVP = +46 (8 percentile)
FAT:	MVP = +0.02 (88 percentile)
REA:	MVP = +0.67 (8 percentile)
Marbling:	MVP = +0.71 (13 percentile)
Tenderness:	MVP = -0.55 (11 percentile)
S:	MVP = +221 (2 percentile)

Our Goals

- Develop new “breed” of cattle
 - Composite of many breed crosses
- Provide unique learning opportunities for students



