

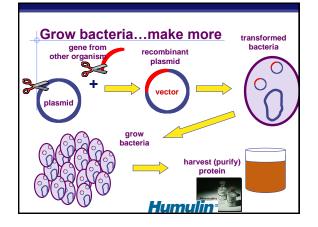
Identifying Recombinant Bacteria

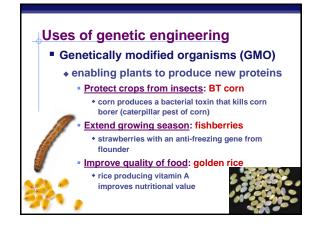
- Only a small % of our bacteria will have taken up the recombinant plasmid
- How do we know which?
 - Traditionally have used plasmids with desired gene + antibiotic resistance
 - Issues with this: fear of pathogenic bacteria picking up these genes
 - Alternatives?
- GFP—green fluorescent protein!





Transformed vertebrates





Gene	Thera	1 10		
 Remember this? normal allele of the CFTR gene codes for a membrane protein that transports Cl' across cell membrane defective or absent channels limit transport of Cl' & H₂O across cell membrine thicker & stickier mucus coats around cell 				
Chromosome 7	Sequence of nucleotides in CFTR gene	Amino acid sequence of CFTR protein	delta F508	Maren Morke parcroate deer
		PHENYLALANINE 508	DELETED IN MANY NATIONTS WITH SYSTIC FIBROSIS	Macas blocks ar sac (alveol) in the lurgs Parcreatic
CFTR GENE	G T G	- GLYCINE 509	loss of one amino acid	

