Dear Chairman Hoeven, Chairman Bishop, Ranking Member Merkley, and Ranking Member Fortenberry:

We, the undersigned organizations, are writing to request your support for $40 million in appropriations for the Agricultural Genome to Phenome Initiative. This new initiative was established in the 2018 Farm Bill and recognizes the critical need for increased federal investment to advance genomics in agriculturally important plant and animal species.

It is widely acknowledged that obtaining phenotype information is a major limiting step in converting genomic information into useful improvements in agriculturally important species. Significant research is needed to fully characterize the phenotypes, which are collectively known as the “phenome” of our major crop and livestock species. Understanding the relationships between genes and trait phenotypes will eventually allow farmers and ranchers to enhance production by identifying optimal combinations of genetics and management practices. The Agricultural Genomes to Phenomes Initiative will develop tools and knowledge to allow for the analysis of phenotypes across a diverse array of agriculturally important species, and help individual farmers make better management decisions and achieve higher stable productivity.

Investments in the Agricultural Genome to Phenome Initiative will support:

- Studying agriculturally significant crops and animals in production environments to achieve sustainable and secure agricultural production.
- Ensuring that current gaps in existing knowledge of agricultural crop and animal genetics and phenomics are filled.
• Identifying and developing a functional understanding of relevant genes from agriculturally important animals and crops.
• Ensuring future genetic improvement of crops and animals of importance to the agriculture sector of the United States.
• Studying the relevance of diverse germplasm as a source of unique genes that may be of importance in the future.
• Enhancing genetics to reduce the economic impact of pathogens on crops and animals of importance to the agriculture sector of the United States;

We respectfully request that $40 million be appropriated for the Agricultural Genome to Phenome program in fiscal year 2020 to support this important work. Please let us know if you have any questions or if we can be of any assistance as the FY 2020 appropriations process moves forward.

Sincerely,

American Association of Mycobacterial Diseases
American Dairy Coalition
American Dairy Science Association
American Farm Bureau Federation
American Feed Industry Association
American Sheep Industry Association
American Society of Animal Science
American Society of Plant Biologists
American Veterinary Medical Association
Association of American Veterinary Medical Colleges
Cornell University
FASS
Indiana Dairy Producers
Indiana State Poultry Association
Iowa Corn Growers Association
Iowa State University
Michigan Agri-Business Association
Michigan Pork Producers Association
Michigan Sheep Producers Association
Minnesota Pork Producers Association
Mississippi Poultry Association
Mycobacterial Diseases of Animals Multistate Initiative
National Association for the Advancement of Animal Science
National Corn Growers Association
National Dairy Herd Improvement Association
National Grain and Feed Association
National Milk Producers Federation
National Pork Producers Council
National Turkey Federation
Nebraska Cattlemen
Ohio Pork Council
Penn State University
University of Minnesota
University of Wisconsin-Madison
US Dairy Forage Research Center Stakeholder Committee