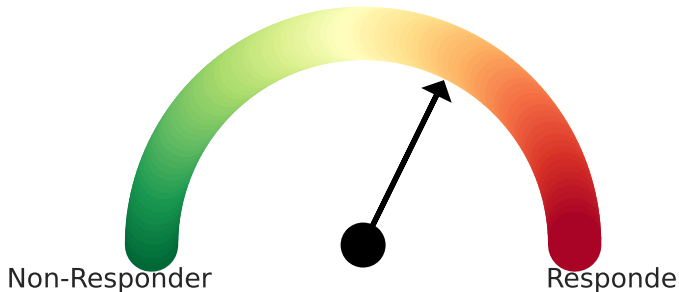


# Clinical Decision Support System for Bladder Cancer Treatment Response

## Multi-Modal Fusion Model (AUC = 0.771)

Patient ID: TCGA-FD-A3B8-01  
Date: 2025-07-29  
Test: Multi-Modal Genomic Analysis

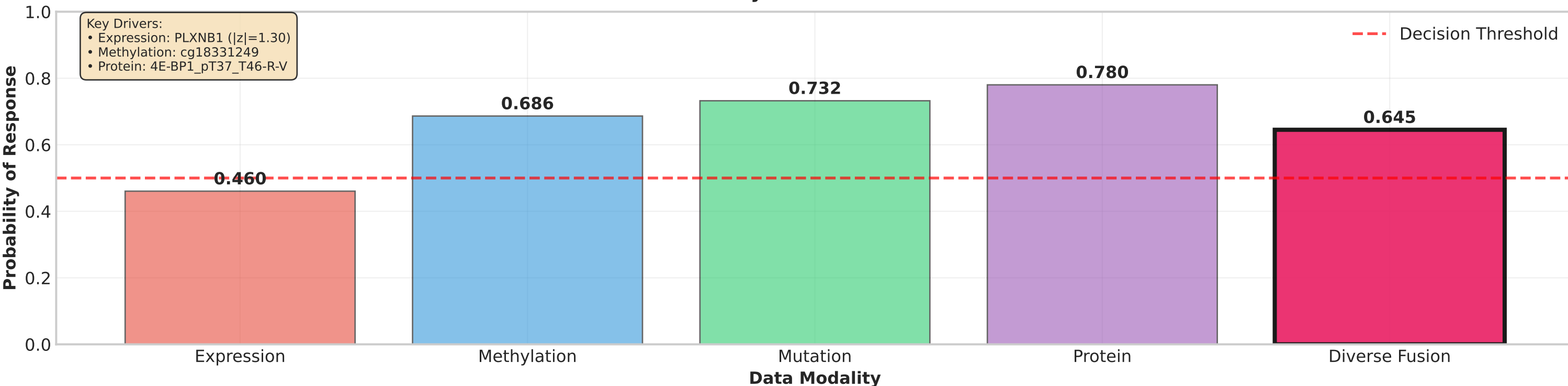


64.5%

Treatment Response Probability

**Prediction: Responder**  
**Confidence: 29.0%**  
**Model: Diverse Fusion**

### Individual Modality Predictions vs Fusion Model



#### Clinical Recommendations:

- Moderate likelihood of treatment response
- Proceed with standard therapy with close monitoring
- Consider early imaging at 2 months to assess response
- Have alternative treatment options ready

#### Model Performance:

AUC:  $0.771 \pm 0.037$   
Sensitivity: 84.2%  
Specificity: 70.1%  
PPV: 81.3%  
NPV: 74.2%