

HUMAN DORSAL ROOT GANGLIA

HIGH-QUALITY TISSUE

■ **T1**
DRG-101/F
DRG-101/P
DRG-101/R

■ **T2**
DRG-102/F
DRG-102/P
DRG-102/R

■ **T3**
DRG-103/F
DRG-103/P
DRG-103/R

■ **T4**
DRG-104/F
DRG-104/P
DRG-104/R

■ **T5**
DRG-105/F
DRG-105/P
DRG-105/R

■ **T6**
DRG-106/F
DRG-106/P
DRG-106/R

■ **T7**
DRG-107/F
DRG-107/P
DRG-107/R

■ **T8**
DRG-108/F
DRG-108/P
DRG-108/R

■ **T9**
DRG-109/F
DRG-109/P
DRG-109/R

■ **T10**
DRG-110/F
DRG-110/P
DRG-110/R

■ **T11**
DRG-111/F
DRG-111/P
DRG-111/R

■ **T12**
DRG-112/F
DRG-112/P
DRG-112/R

■ **L1**
DRG-113/F
DRG-113/P
DRG-113/R

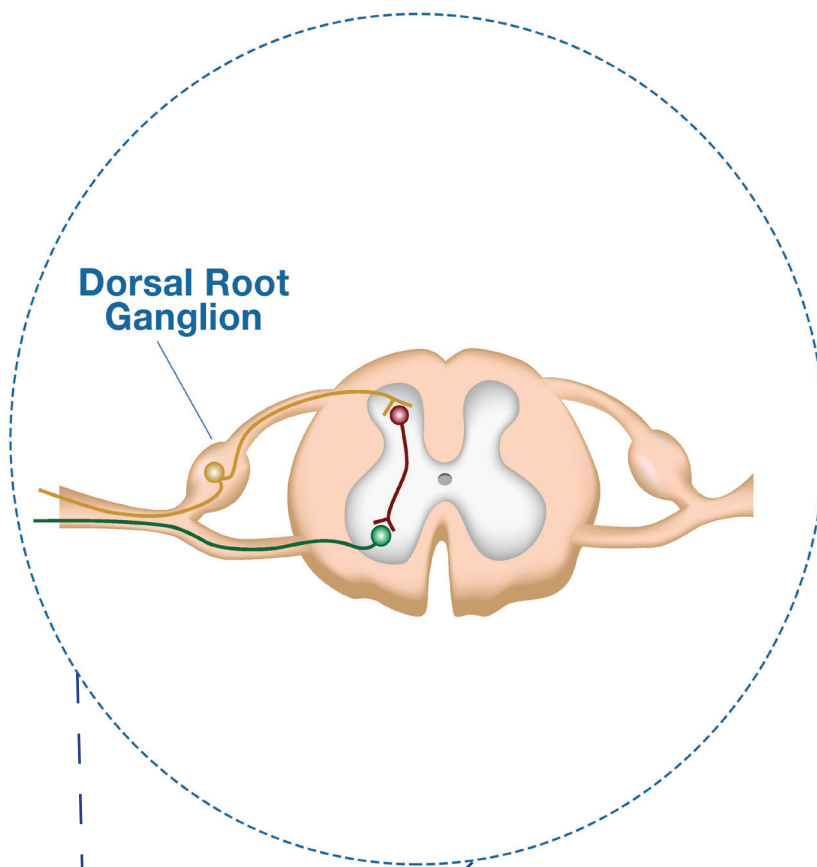
■ **L2**
DRG-114/F
DRG-114/P
DRG-114/R

■ **L3**
DRG-115/F
DRG-115/P
DRG-115/R

■ **L4**
DRG-116/F
DRG-116/P
DRG-116/R

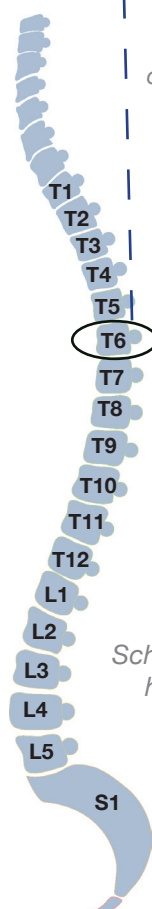
■ **L5**
DRG-117/F
DRG-117/P
DRG-117/R

■ **S1**
DRG-118/F
DRG-118/P
DRG-118/R



Dorsal Root Ganglion

Closer view of one human DRG pair & spinal cord section



Schematic illustration of human spinal cord

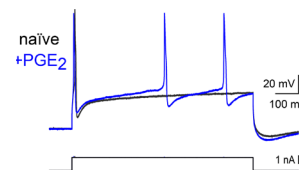
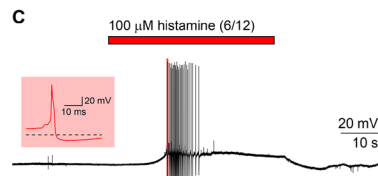
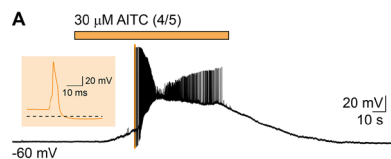
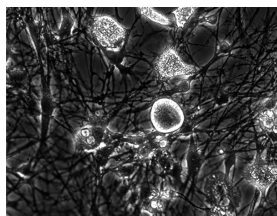
F – Frozen
P – Formalin-Fixed
R – RNAlater[®]

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VALIDATION OF HUMAN DRG NEURONS



Functional Parameter	Measured Outcome	Significance
Resting membrane potential	-70 mV < V _m < -60 mV	<ul style="list-style-type: none"> • Physiological range • Normal function of mitochondria and ionic pumps
Action potential generation	Cells fire action potentials at 0.1 – 20 Hz	<ul style="list-style-type: none"> • Cells are electrically active and exhibit the physiological frequency range
Response to known nociceptors	Heat, capsaicin, cold, mustard oil	<ul style="list-style-type: none"> • Cells are fully functional as nociceptive neurons
Response to known pruritogens	Histamine, chloroquine, Bam	<ul style="list-style-type: none"> • Cells are fully responsive to irritants
Sensitization by inflammatory agents	Sensitization can be induced by PGE ₂ , bradykinin, ATP	<ul style="list-style-type: none"> • Normal pathological response attest to the integrity of the relevant biochemical pathways

High-Quality Human Tissue for Drug Discovery & Research

AnaBios offers high-quality human dorsal root ganglia (hDRG) neurons ethically-sourced from consenting donors. Our human tissue samples have been processed utilizing proprietary methods to maximize the preservation of physiological function and success in experimentation involving functional end points or gene expression analysis, proteomics and metabolomics. The quality of our cultures has been demonstrated in recent studies and publications report-

ing the physiological activity of human neurons isolated from these DRG samples.

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