



## PHARMACOGENOMICS TEST TO BETTER MANAGE AUTISM SPECTRUM DISORDER (ASD)

**PGxOne™ Plus is a pharmacogenomics test that can help predict how a patient will respond to drug therapy based on individual genetic makeup.**

- Genetic variants affect drug absorption, metabolism, and activity. Results guide effective treatment decisions, potentially reducing adverse drug events (ADEs) and trial-and-error drug selection and dosing.
- Provides recommendations for over 300 commercial drugs, including the most frequently prescribed ASD drugs.
- Cutting-edge Next Generation Sequencing (NGS) technology enables comprehensive coverage of ~214 genetic variants in 53 genes.
- Delivers medically actionable recommendations in an easy to interpret report.

### PGxASD™ Gene Panel

ABCB1	CYP2C19	GRIK4
ADRA2A	CYP2D6	HRT1A
ANKK1	CYP3A4	HTR2A
CES1	DRD1	HTR2C
COMT	DRD2	OPRM1
CYP1A2	FAAH	SLC6A4

### **Autism greatly varies from person to person with no one-size-fits all treatment approach\***

- Primary treatment includes drug interventions to manage symptoms, most commonly behavioral medications
- 94% of people with an autism have co-morbid medical conditions
- Two drugs are FDA-approved specifically for autism-associated agitation and irritability (risperidone and aripiprazole)

### **PGxOne™ Plus testing can help find the most appropriate therapies for ASD associated behavioral conditions and other co-morbidities.**

- Improve Treatment
- Maximize Drug Efficacy
- Improve Medication Compliance
- Avoid Side Effects & Treatment Failure
- Can Reduce the Number of Drugs Prescribed
- Reduce Lifetime Healthcare Costs





PGXONE™ PLUS PROVIDES COMPREHENSIVE COVERAGE FOR  
20 THERAPEUTIC AREAS AND OVER 310 MEDICAL CONDITIONS.

**53**  
**Genes**



### Most Commonly prescribed drugs for ASD include:

Alprazolam (Xanax®)	Escitalopram (Lexapro®)	Omeprazole (Prilosec®)
Amitriptyline (Elavil®)	Esomeprazole (Nexium®)	Oxazepam (Serax®)
Aripiprazole (Abilify®)	Famotidine (Pepcid®)	Oxcarbazepine (Trileptal®)
Atomoxetine (Strattera®)	Fluoxetine (Prozac®)	Pantoprazole (Protonix®)
Brexipiprazole (Rexulti®)	Fluvoxamine (Luvox®)	Paroxetine (Paxil®)
Brivaracetam (Briviact®)	Haloperidol (Haldol®)	Phenobarbital
Bumetanide (Bumex®)	Iloperidone (Fanapt®)	Phenytoin (Dilantin®)
Bupropion (Wellbutrin®)	Imipramine (Tofranil®)	Pimozide (Orap®)
Buspirone (Buspar®)	Lamotrigine (Lamictal®)	Protriptyline (Vivactil®)
Carbamazepine (Tegretoil®)	Lansoprazole (Prevacid®)	Quetiapine (Seroquel®)
Citalopram (Celexa®)	Levomilnacipran (Fetzima®)	Rabeprazole (Aciphex®)
Clobazam (Onfi®)	Lisdexamfetamine (Vyvanse®)	Reboxetine (Edronax®)
Clomipramine (Anafranil®)	Lithium (Lithobid®)	Risperidone (Risperdal®)
Clozapine (Clozaril®)	Lorazepam (Ativan®)	Sertraline (Zoloft®)
Desipramine (Norpramin®)	Maprotiline	Topiramate (Topamax®)
Dexlansoprazole (Dexilant®)	Methamphetamine (Desoxyn®)	Trazodone (Desyrel®)
Dexmethylphenidate (Focalin®)	Methylphenidate (Ritalin®)	Trimipramine (Surmontil®)
Dextroamphetamine and Amphetamine (Adderall®)	Midazolam (Versed®)	Valproic acid (Depakote®)
Diazepam (Valium®)	Milnacipran (Savella®)	Venlafaxine (Effexor®)
Doxepin (Silenor®)	Mirtazapine (Remeron®)	Vilazodone (Viibryd®)
Duloxetine (Cymbalta®)	Nortriptyline (Pamelor®)	Vortioxetine (Trintellix®)
	Olanzapine (Zyprexa®)	