



Genetic Biosciences For Improving the Quality of Life.

## Healthy Aging Panel

| Functional Area    | SNP     | Gene Name                           | Function                                  | Support Level   |
|--------------------|---------|-------------------------------------|---|-----------------|
| Bone Health        | VDR     | Vitamin D Receptor                  | Bone Mineral Density                      | Basic Support   |
| Detoxification     | EPHX    | Microsomal Epoxide Hydrolase        | Detoxifies epoxides                       | Maximum Support |
| Oxidative Stress   | NQO1    | COQ10 Reductase                     | COQ10 Metabolism                          | Maximum Support |
| Oxidative Stress   | SOD2    | Manganese Superoxide Dismutase      | Eliminates oxygen free radicals           | Basic Support   |
| Oxidative Stress   | GPX1    | Glutathione Peroxidase              | Eliminates hydrogen peroxide              | Added Support   |
| Photo-Aging / CT   | MMP-1   | Matrix Metalloproteinase            | Collagen Breakdown                        | Added Support   |
| Vascular Integrity | MTRR    | Methionine Synthase Reductase       | Homocysteine metabolism                   | Basic Support   |
| Vascular Integrity | TNFA    | Tumor Necrosis Factor-alpha         | Multifunctional, proinflammatory cytokine | Basic Support   |
| Vascular Integrity | MTHFR   | Methylenetetrahydrofolate Reductase | Homocysteine metabolism                   | Maximum Support |
| Vascular Integrity | PON-1   | Paraoxonase-1                       | Hydrolyzes oxidized phospholipids on HDLs | Added Support   |
| Blood Pressure     | CYP11B2 | Aldosterone Synthase (Cyto 450)     | Regulates blood pressure                  | Maximum Support |
| Lipid Metabolism   | APOB    | Apolipoprotein B                    | Main lipoprotein of chylomicrons and LDL. | Added Support   |

### Interpreting your Healthy Aging Panel Results.

No disadvantaged gene SNPs in this health area

A **GREEN** test result (Homozygous Negative) indicates that you do not have the variant SNP and that the gene is functioning optimally to produce its specific enzyme, hormone, cytokine or structural protein.

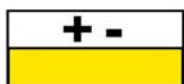


Homozygous Negative  
Neither chromosome carries the SNP

**Basic Support**

One disadvantaged gene SNP from one of your parents in this health area

A **YELLOW** test result (Heterozygous Positive) indicates that you have one variant SNP and that the protein molecule expressing a specific enzyme, hormone, cytokin or structural protein is functioning less than optimally.



Heterozygous Positive  
One chromosome carries the SNP

**Added Support**

Two disadvantaged gene SNPs from both of your parents in this health area

A **RED** test result (Homozygous Positive) indicates that you have two variant SNP and that the protein molecule expressing a specific enzyme, hormone, cytokine or structural protein is functioning minimally.



Homozygous Positive  
Both chromosomes carry the SNP

**Maximum Support**