

Example Client, XYZ123 1234 Warde Road Ann Arbor MI 48108 EXAMPLE, REPORT W WX0000003826 F 12/05/1988 34 Y

| | Referral Testi | ng | | | | |
|--|--|--|---|---|--------------|-------------|
| | Collected: 09 | 9/18/2023 | 3 15:31 | Received | : 09/18/2023 | 15:31 |
| Test Name | <u>Result</u> | <u>Flag</u> | Ref-Range | <u>s</u> | <u>Units</u> | <u>Site</u> |
| Methylenetetrahydrofolate Reductas | se | | | | | |
| MTHFR Mutation | POSITIVE | | | | | QCRL |
| RESULT: POSITIVE FOR ONE COPY | OF THE A1298C VARI | ANT | | | | |
| Interpretation | See Below | | | | | QCRL |
| <pre>INTERPRETATION:This individua and negative (normal) for the result is not associated with coronary artery disease, veno outcome. Laboratory results reviewed a Reduced methylenetetrahydrofo is a genetic risk factor for present with low serum folate MTHFR gene result in reduced variant C677T [NM 005957.3: c 1286A>C (p.E429A)] occur freq Mild to moderate hyperhomocys factor for coronary artery di Hyperhomocysteinemia is multi genetic, physiologic and envi support the previously descri coronary artery disease and v hyperhomocysteinemia caused b utility of MTHFR variant test by The American College of Me the evaluation of venous thro Modest positive association h "thermolabile" variant of the</pre> | <pre>l is heterozygous f C677T variant in t a significantly ir us thromboembolism, nd released by qual late reductase (MTF hyperhomocysteinemi levels. Two commor enzyme activity. Th .665C>T (p.A222V)] uently in the gener teinemia has been i sease and venous th factorial, involvir ronmental factors. bed association of enous thromboemboli y reduced MTHFR act ing is uncertain ar dical Genetics and etricians and Gyneo mboembolism or adve as also been found MTHFR gene and mar</pre> | For the MTHI hereased or add lified p HFR) en: a, espention and Al2 cal population dentif: hereased increased lifical population cal population Recent increased lifical population cologistic erse pre- between between between | Al298C va FR gene. d risk for verse press personnel. zyme active active cially whats in the rmolabile' 298C [c. ulation. ied as a pro- mbination studies of sed risk for h mild Therefore of recomments (ACMG) ts (ACOG) egnancy of h the r medical | risk of do not for e, the ended or in atcome. | | |

with neural tube defects, neuropsychiatric disease, and chemotherapy toxicity. Increased risk of coronary artery disease, venous thromboembolism and increased plasma homocysteine can be caused by a variety of genetic and non-genetic factors not screened for by this assay. If indicated by personal or family history of thromboembolism, consider additional testing such as plasma homocysteine levels, factor V Leiden and prothrombin gene mutations.

LAB: L - LOW, H - HIGH, AB - ABNORMAL, C - CRITICAL, . - NOT TESTED

Ordered By: KAJAL SITWALA, MD, PhD WX0000000002353

Kajal V. Sitwala, MD, PhD - Medical Director Form: MM RL1 PAGE 1 OF 2



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| | | Refer | ral Testing | | | | |
|------------------|--|---|--|---|---|---------------------|-------------|
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| | The C677T and A1298C var selected regions of the and fluorescent probes h followed by melting curv Although rare, false pos All results should be in relevant history, and ot please contact your loca call 866-GENEINFO (866-4 of these results. For additional information This test was developed characteristics have bee Institute San Juan Capis the U.S. Food and Drug A pursuant to the CLIA reg Test Performed at: Quest Diagnostics Nichol 33608 Ortega Highway San Juan Capistrano, CA | iants are dete MTHFR gene by ybridization t e analysis wit itive or false terpreted in c her laboratory l Quest Diagno 36-3463) for a on, please ref al/educational and its analyt n determined b trano. It has dministration. ulations and i s Institute 92675-2042 | cted by amplifica polymerase chain o the targeted re h a real time PCF negative results ontext of clinica data. Health can stic's genetic co ssistance with in er to(This link i purposes only.) ical performance y Quest Diagnosti not been cleared This assay has k s used for clinic I Maramica MD, | Ation of t reaction egions, & system. s may occu al finding re provide ounselor o nterpretat is being ics Nichol or approv been valid cal purpos PhD, MBA | he (PCR) r. s, rs, r ion s ed by ated es. | | |
| | | | | | Orte un Ulinku - C | Perfor | ming Site: |
| | | QCRL: QUEST DIAG | | PISTRANO 33608 (| Ortega Highway S | San Juan Capistrano | CA 92675 |
| | | | Reported | Date: 2023 | 3.09.18 | 15:31 M | IHFA |

LAB: L - LOW, H - HIGH, AB - ABNORMAL, C - CRITICAL, . - NOT TESTED