

**ANALYTE:**  
**MSH2**

|                             |                                                                                                                                                                                          |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NAME:</b>                | mutS homolog 2                                                                                                                                                                           |
| <b>SYMBOL:</b>              | MSH2                                                                                                                                                                                     |
| <b>VERSION OF ORPHANET:</b> | 2023-06-22 14:14:43                                                                                                                                                                      |
| <b>SYNONYMS:</b>            | DNA mismatch repair protein Msh2<br>HNPCC<br>HNPCC1                                                                                                                                      |
| <b>XREF(S):</b>             | <a href="#">Orphanet</a><br><a href="#">Ensembl</a><br><a href="#">Genatlas</a><br><a href="#">HGNC</a><br><a href="#">OMIM</a><br><a href="#">Reactome</a><br><a href="#">SwissProt</a> |
| <b>CREATED:</b>             | 13 May 2019 - 01:01                                                                                                                                                                      |
| <b>CHANGED:</b>             | 22 Jun 2023 - 16:14                                                                                                                                                                      |

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## RELATED CONTENT

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### Related Genetic Tests

- [Adenomatous polyposis, familial \(gene panel\)](#)
- [Breast and Ovarian Cancer, HBOC, Familial \(17 genes\)](#)
- [Breast and Ovarian Cancer, HBOC, Familial \(gene panel\)](#)
- [Breast and Ovarian Cancer, HBOC, Familial \(gene panel\)](#)
- [Breast and Ovarian Cancer, HBOC, Hereditary](#)
- [Breast and Ovarian Cancer, hereditary, HBOC, Familial \(gene panel\)](#)
- [Breast and Ovarian cancer, HBOC, familial \(gene panel - 26 genes\)](#)
- [Breast cancer, hereditary \(gene panel\)](#)
- [Colon carcinoma \(hereditary/familial\) \(gene panel\)](#)
- [Colorectal cancer / Polyposis \(gene panel\)](#)
- [Colorectal cancer, hereditary \(gene panel\)](#)
- [Congenital malformation \(gene panel - 1721 genes\)](#)
- [Congenital malformation \(gene panel\)](#)
- [Constitutional Mismatch Repair Deficiency Syndrome \(4 genes\)](#)
- [Constitutional Mismatch Repair Deficiency Syndrome + Bloom syndrome \(5 genes\)](#)
- [Dermatogenetic panel, severe, rare and hereditary genodermatoses \(gene panel - 394 genes\)](#)
- [Endometrial cancer \(gene panel\)](#)
- [Familial cancer predisposition \(gene panel\)](#)
- [Gastric Cancer \(10 genes\)](#)
- [Hereditary Breast and Ovarian Cancer, HBOC \(13 genes\)](#)
- [Hereditary cancer \(Breast, ovary, colon\) \(26 genes\)](#)
- [Hereditary cancer \(gene panel\)](#)
- [Hereditary cancer panel \(gene panel\)](#)
- [Hereditary nonpolyposis colorectal cancer \(gene panel\)](#)
- [Hereditary nonpolyposis colorectal cancer / Lynch syndrome \(8 genes\)](#)
- [Kidney cancer \(Renal cell carcinoma and transitional cell carcinoma \(TCC\) renal pelvis\) \(gene panel\)](#)

- Kidney cancer (renal cell carcinoma) (gene panel)
- Microsatellites instability analysis- MMR genes
- Myeloid/lymphoid neoplasms with germline predisposition (gene panel)
- Pancreatic cancer (12 genes)
- Pancreatic cancer (gene panel)
- Pancreatic cancer, familial (gene panel)
- Pediatric oncopredisposition (gene panel)
- Prostate Cancer (7 genes)
- Prostate cancer (gene panel)
- Renal cell carcinoma (kidney cancer) (gene panel)
- « Inherited bone marrow failures syndromes » with or without organ dysfunction

## Related Diseases

- Constitutional mismatch repair deficiency syndrome
- Lynch syndrome
- Muir-Torre syndrome

## Related Gene Panels

- Extended Breast Cancer Panel (26 gene) - VUB
- Breast and ovarian cancer - UGent
- Breast cancer, hereditary (13 genes) - ULG
- Breast/ ovarian cancer (12 genes) - UZA
- Breast/ ovarian cancer (15 genes) - KUL
- Breast/Ovarian cancer (26 genes) - ULB
- Breast/Ovarian cancer (gene panel) - IPG
- Breast/ovarian cancer (12 genes) - UCL
- Cancer (Breast, ovary, colon,...) (26 genes) - ULG
- Colon carcinoma (hereditary/familial) (gene panel) (12 genes) - VUB
- Colorectal cancer/polypsis (18 genes) - KUL

- Congenital malformation (1721 genes) - ULB
- Congenital malformation gene panel - VUB
- Constitutional Mismatch Repair Deficiency Syndrome (4 genes) - KUL
- Constitutional Mismatch Repair Deficiency Syndrome / Bloom syndrome - KUL
- Dermatogenetic / severe, rare and hereditary genodermatoses (394 genes) - ULB
- Endometrial Cancer (7 genes) - KUL
- Familial pancreatic cancer
- Familial pancreatic cancer - UGent
- Gastric cancer (10 genes) - KUL
- Hematologic Familiar Forms - ULG
- Hereditary Cancer Solution (35 genes) - UCL
- Hereditary breast and ovarian cancer (26 genes) - CHULg
- Hereditary cancer predisposition - UGent
- Hereditary colorectal cancer (Adenomatous polyposis, Lynch, Peutz- Jeghers, juvenile polyposis, PPAP, NAP) - UGent
- Hereditary predisposition to cancer (47 genes) - IPG
- Hereditay Non Polyposis Colorectal Cancer (8 genes) - ULG
- Kidney cancer (Renal Cell Carcinoma (RCC)) (14 genes) - KUL
- Kidney cancer (Transitional Cell Carcinoma (TCC)) (14 genes) - KUL
- Lynch syndrome/hereditary nonpolyposis colorectal cancer (4 genes) - IPG
- Lynch syndrome/hereditary nonpolyposis colorectal cancer (5 genes) - UCL
- Lynch syndrome/hereditary nonpolyposis colorectal cancer (5 genes) - UCL - UGent
- Pancreas cancer (12 genes-) - ULB
- Pancreatic Cancer (9 genes) - KUL
- Pediatric oncopredisposition - UGent
- Prostate cancer (7 genes) - KUL
- Prostate cancer - UGent
- Renal cell carcinoma - UGent

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