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Report

LS

What categories and functional annotations are associated with the gene BRAF in DGIdb?

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get_gene_info

BRAF Gene Information from DGIdb

Full Name: B-Raf proto-oncogene, serine/threonine kinase
Concept ID: hgnc:1097

Gene Categories and Sources

Category	Supporting Sources
Clinically Actionable	CIViC, Caris Molecular Intelligence, FoundationOne Genes, MSK-IMPACT, Oncomine, Tempus
Drug Resistance	CIViC, COSMIC
Druggable Genome	Hingorani-Casas, Hopkins-Groom, Russ-Lampel
Enzyme	Guide to Pharmacology
Kinase	Hopkins-Groom, Pharos, dGene
Serine Threonine Kinase	GO, dGene

Summary

BRAF is extensively annotated in DGIdb with six functional categories:

- 1. **Clinically Actionable** — Supported by six major clinical genomics platforms, indicating its importance in precision oncology
- 2. **Drug Resistance** — Associated with resistance mechanisms in cancer therapy
- 3. **Druggable Genome** — Classified as a druggable target across multiple druggability studies

4. **Enzyme/Kinase** — Functionally characterized as a serine/threonine kinase in the MAPK signaling pathway

This gene is one of the most well-characterized drug targets in oncology, particularly relevant for melanoma, colorectal cancer, and thyroid cancer treatment.

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