**Supplementary table 2** The level-3 mRNA expression data files (n=424) of HCC patients from the TCGA website.

|  |  |
| --- | --- |
| id | links |
| 0036fcec-eaed-430b-9a23-5efb2d2cc7f2 | <https://portal.gdc.cancer.gov/files/0036fcec-eaed-430b-9a23-5efb2d2cc7f2> |
| 003ad4b1-dc1b-49bc-8ce2-d6dbd1250fee | <https://portal.gdc.cancer.gov/files/003ad4b1-dc1b-49bc-8ce2-d6dbd1250fee> |
| 00fb4b52-e6a4-4ad9-bbed-584e25851aca | <https://portal.gdc.cancer.gov/files/00fb4b52-e6a4-4ad9-bbed-584e25851aca> |
| 01e802a3-1ae8-4601-9540-d99dba62728e | https://portal.gdc.cancer.gov/files/01e802a3-1ae8-4601-9540-d99dba62728e |
| 023b8a0a-1b32-4feb-8b9d-0844dc0e7c6c | https://portal.gdc.cancer.gov/files/023b8a0a-1b32-4feb-8b9d-0844dc0e7c6c |
| 02957f01-c615-4576-8d45-473204cb284a | https://portal.gdc.cancer.gov/files/02957f01-c615-4576-8d45-473204cb284a |
| 03e3e614-324f-4471-89fc-6b134605f364 | https://portal.gdc.cancer.gov/files/03e3e614-324f-4471-89fc-6b134605f364 |
| 0444bb3d-0844-4333-97b0-e71faca95abb | https://portal.gdc.cancer.gov/files/0444bb3d-0844-4333-97b0-e71faca95abb |
| 048103cc-f5d1-4ad4-8b82-ea76715bfa53 | https://portal.gdc.cancer.gov/files/048103cc-f5d1-4ad4-8b82-ea76715bfa53 |
| 071a3c5b-9378-4cc0-ae6a-b772630822d0 | https://portal.gdc.cancer.gov/files/071a3c5b-9378-4cc0-ae6a-b772630822d0 |
| 074a7dd3-8688-4dda-9bd9-7221e32f4940 | https://portal.gdc.cancer.gov/files/074a7dd3-8688-4dda-9bd9-7221e32f4940 |
| 0829bb65-1cde-461c-b511-3649d97c62e7 | https://portal.gdc.cancer.gov/files/0829bb65-1cde-461c-b511-3649d97c62e7 |
| 08b01615-a73a-4dcb-98ec-c110b34867c3 | https://portal.gdc.cancer.gov/files/08b01615-a73a-4dcb-98ec-c110b34867c3 |
| 0940bd97-2818-48f6-a0a5-f955152409b8 | https://portal.gdc.cancer.gov/files/0940bd97-2818-48f6-a0a5-f955152409b8 |
| 095b68ff-e317-4667-b1d1-ff69254d146a | https://portal.gdc.cancer.gov/files/095b68ff-e317-4667-b1d1-ff69254d146a |
| 0bee0323-d4e5-4f61-97a3-d12e0d21c18d | https://portal.gdc.cancer.gov/files/0bee0323-d4e5-4f61-97a3-d12e0d21c18d |
| 0c11ccb8-4405-4a2a-9180-b483fb845968 | https://portal.gdc.cancer.gov/files/0c11ccb8-4405-4a2a-9180-b483fb845968 |
| 0cb37227-b328-4083-8c3c-fb8a850fc5bf | https://portal.gdc.cancer.gov/files/0cb37227-b328-4083-8c3c-fb8a850fc5bf |
| 0cf6ddfa-58d3-47b6-b2ae-885749b456c5 | https://portal.gdc.cancer.gov/files/0cf6ddfa-58d3-47b6-b2ae-885749b456c5 |
| 0d7d8f96-9010-4f69-b86a-83e8e70cdedc | https://portal.gdc.cancer.gov/files/0d7d8f96-9010-4f69-b86a-83e8e70cdedc |
| 0dbea4cc-32b6-42af-b4f0-fa0a67b05a7f | https://portal.gdc.cancer.gov/files/0dbea4cc-32b6-42af-b4f0-fa0a67b05a7f |
| 0f2270a9-bd32-4834-82f1-24197db62398 | https://portal.gdc.cancer.gov/files/0f2270a9-bd32-4834-82f1-24197db62398 |
| 0f6b6a94-1881-45a2-a6ea-a70483f379e6 | https://portal.gdc.cancer.gov/files/0f6b6a94-1881-45a2-a6ea-a70483f379e6 |
| 1080a7ed-8a78-43fc-a962-35127d9db655 | https://portal.gdc.cancer.gov/files/1080a7ed-8a78-43fc-a962-35127d9db655 |
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| 1086061d-5910-4b35-be67-c69836917d43 | https://portal.gdc.cancer.gov/files/1086061d-5910-4b35-be67-c69836917d43 |
| 11e8ec14-c489-4c66-b387-fea14555a3f3 | https://portal.gdc.cancer.gov/files/11e8ec14-c489-4c66-b387-fea14555a3f3 |
| 1314e20d-d48f-4c6c-b208-897bbf4cc147 | https://portal.gdc.cancer.gov/files/1314e20d-d48f-4c6c-b208-897bbf4cc147 |
| 15be9837-f3e7-45eb-8822-e98341e80362 | https://portal.gdc.cancer.gov/files/15be9837-f3e7-45eb-8822-e98341e80362 |
| 15fcbb62-7e0c-4b85-b233-643a178c1b5c | https://portal.gdc.cancer.gov/files/15fcbb62-7e0c-4b85-b233-643a178c1b5c |
| 18ec5ded-6efc-4514-bbbe-c6df897b3e08 | https://portal.gdc.cancer.gov/files/18ec5ded-6efc-4514-bbbe-c6df897b3e08 |
| 19533c53-3be7-4ede-bf65-d805e82aaf2b | https://portal.gdc.cancer.gov/files/19533c53-3be7-4ede-bf65-d805e82aaf2b |
| 19697a4b-519a-4b54-8bbe-74e9a2d28df2 | https://portal.gdc.cancer.gov/files/19697a4b-519a-4b54-8bbe-74e9a2d28df2 |
| 197e7163-1a47-4712-990a-645bd39507fd | https://portal.gdc.cancer.gov/files/197e7163-1a47-4712-990a-645bd39507fd |
| 1994b978-6d9f-4f05-b88d-a6cebeabd19c | https://portal.gdc.cancer.gov/files/1994b978-6d9f-4f05-b88d-a6cebeabd19c |
| 1c6335e8-4ab5-483e-a3b2-b1c7e9ffdb93 | https://portal.gdc.cancer.gov/files/1c6335e8-4ab5-483e-a3b2-b1c7e9ffdb93 |
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| 1cc916ad-8d93-4be4-a6a5-95c411cc57a9 | https://portal.gdc.cancer.gov/files/1cc916ad-8d93-4be4-a6a5-95c411cc57a9 |
| 1ce43195-215f-41ac-87d3-146e942bceae | https://portal.gdc.cancer.gov/files/1ce43195-215f-41ac-87d3-146e942bceae |
| 1d046beb-d3fc-474b-aedd-04249e061e71 | https://portal.gdc.cancer.gov/files/1d046beb-d3fc-474b-aedd-04249e061e71 |
| 1e1587e8-8938-4578-8529-0831573a9fe1 | https://portal.gdc.cancer.gov/files/1e1587e8-8938-4578-8529-0831573a9fe1 |
| 1e65110a-b37b-42e6-8f99-b96116fdac71 | https://portal.gdc.cancer.gov/files/1e65110a-b37b-42e6-8f99-b96116fdac71 |
| 1f63ae9f-5b3d-4367-aba8-d6222cc05667 | https://portal.gdc.cancer.gov/files/1f63ae9f-5b3d-4367-aba8-d6222cc05667 |
| 206524fb-7569-4503-a482-f41e9137d856 | https://portal.gdc.cancer.gov/files/206524fb-7569-4503-a482-f41e9137d856 |
| 2157c1f3-890e-4f10-a48d-dbe80e021ecc | https://portal.gdc.cancer.gov/files/2157c1f3-890e-4f10-a48d-dbe80e021ecc |
| 21c5a84a-877e-42ac-aabf-30eb7d6259de | https://portal.gdc.cancer.gov/files/21c5a84a-877e-42ac-aabf-30eb7d6259de |
| 21f8d42a-a743-49d4-a39b-473ad03f5ce8 | https://portal.gdc.cancer.gov/files/21f8d42a-a743-49d4-a39b-473ad03f5ce8 |
| 228b84dd-0200-4c42-99de-cc9246428d80 | https://portal.gdc.cancer.gov/files/228b84dd-0200-4c42-99de-cc9246428d80 |
| 23814830-d159-432d-adbc-d834cc5eb4fd | https://portal.gdc.cancer.gov/files/23814830-d159-432d-adbc-d834cc5eb4fd |
| 263e5d51-be7b-453e-9e83-e8f72fe8e103 | https://portal.gdc.cancer.gov/files/263e5d51-be7b-453e-9e83-e8f72fe8e103 |
| 26572c76-a5c1-40d8-988c-126df7987e14 | https://portal.gdc.cancer.gov/files/26572c76-a5c1-40d8-988c-126df7987e14 |
| 2675b7a5-87fb-481c-a09f-00116663a0a3 | https://portal.gdc.cancer.gov/files/2675b7a5-87fb-481c-a09f-00116663a0a3 |
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| 28211bba-af07-4e9e-abcd-fcf7cc19ba02 | https://portal.gdc.cancer.gov/files/28211bba-af07-4e9e-abcd-fcf7cc19ba02 |
| 283e4191-59da-4caf-99a3-385a3ea74607 | https://portal.gdc.cancer.gov/files/283e4191-59da-4caf-99a3-385a3ea74607 |
| 28c03921-6a64-4ce6-9627-8734812e4809 | https://portal.gdc.cancer.gov/files/28c03921-6a64-4ce6-9627-8734812e4809 |
| 290ba806-3ade-4706-9c9b-10d571765187 | https://portal.gdc.cancer.gov/files/290ba806-3ade-4706-9c9b-10d571765187 |
| 293f1d34-2368-4382-809a-3b04083329ca | https://portal.gdc.cancer.gov/files/293f1d34-2368-4382-809a-3b04083329ca |
| 2958c735-c75b-4cc0-a968-ffad46dc352b | https://portal.gdc.cancer.gov/files/2958c735-c75b-4cc0-a968-ffad46dc352b |
| 2a816d7c-2cec-4c58-81c0-6fd32d3c3886 | https://portal.gdc.cancer.gov/files/2a816d7c-2cec-4c58-81c0-6fd32d3c3886 |
| 2a986418-6f8a-4c4c-93a1-5e1abf69057b | https://portal.gdc.cancer.gov/files/2a986418-6f8a-4c4c-93a1-5e1abf69057b |
| 2af41f58-7487-493b-9839-cc8719adf8d0 | https://portal.gdc.cancer.gov/files/2af41f58-7487-493b-9839-cc8719adf8d0 |
| 2c2f0616-1fee-4f6d-adf0-64d5557b2d7a | https://portal.gdc.cancer.gov/files/2c2f0616-1fee-4f6d-adf0-64d5557b2d7a |
| 2c4002ec-6a46-4ca1-a227-e656ad54a631 | https://portal.gdc.cancer.gov/files/2c4002ec-6a46-4ca1-a227-e656ad54a631 |
| 2d17c5ed-0229-4dc4-a876-67c8a2f7745a | https://portal.gdc.cancer.gov/files/2d17c5ed-0229-4dc4-a876-67c8a2f7745a |
| 2e678e78-d136-41a2-9a33-b00a10fc5fa8 | https://portal.gdc.cancer.gov/files/2e678e78-d136-41a2-9a33-b00a10fc5fa8 |
| 2ea242f5-b89d-464f-a786-da61b83d4b6f | https://portal.gdc.cancer.gov/files/2ea242f5-b89d-464f-a786-da61b83d4b6f |
| 2fa3c211-314a-4a2d-a15a-02335262bbc4 | https://portal.gdc.cancer.gov/files/2fa3c211-314a-4a2d-a15a-02335262bbc4 |
| 3084a8bb-af8b-43b0-9c1e-fc3e190ed782 | https://portal.gdc.cancer.gov/files/3084a8bb-af8b-43b0-9c1e-fc3e190ed782 |
| 30bec809-3ad4-4a01-a7e4-7846643d1a06 | https://portal.gdc.cancer.gov/files/30bec809-3ad4-4a01-a7e4-7846643d1a06 |
| 31855350-9ddc-4279-a0af-c5564a12e1d3 | https://portal.gdc.cancer.gov/files/31855350-9ddc-4279-a0af-c5564a12e1d3 |
| 32168e04-7f7d-4be9-9e68-cd6d04bcebd6 | https://portal.gdc.cancer.gov/files/32168e04-7f7d-4be9-9e68-cd6d04bcebd6 |
| 33a40e22-a6df-4406-aaab-c1a04f0dfc66 | https://portal.gdc.cancer.gov/files/33a40e22-a6df-4406-aaab-c1a04f0dfc66 |
| 33e6cf0b-5046-4ad4-afb2-c0efe3dbe562 | https://portal.gdc.cancer.gov/files/33e6cf0b-5046-4ad4-afb2-c0efe3dbe562 |
| 34580e9c-83f1-4252-9e71-5b6767d75699 | https://portal.gdc.cancer.gov/files/34580e9c-83f1-4252-9e71-5b6767d75699 |
| 3483feb0-267e-49c8-a186-d2a10d8b95d6 | https://portal.gdc.cancer.gov/files/3483feb0-267e-49c8-a186-d2a10d8b95d6 |
| 34e4aff7-ee34-4534-8eac-285fde1f2eab | https://portal.gdc.cancer.gov/files/34e4aff7-ee34-4534-8eac-285fde1f2eab |
| 35b21093-a92a-45e4-bdb2-a82fb400c6ea | https://portal.gdc.cancer.gov/files/35b21093-a92a-45e4-bdb2-a82fb400c6ea |
| 35b3a2f1-d918-465e-b307-c06a71f31410 | https://portal.gdc.cancer.gov/files/35b3a2f1-d918-465e-b307-c06a71f31410 |
| 35c358f0-4afc-4bd3-a0f4-2741134d6f35 | https://portal.gdc.cancer.gov/files/35c358f0-4afc-4bd3-a0f4-2741134d6f35 |
| 35f067e5-fde1-4793-8d6b-d9ddd951b7c5 | https://portal.gdc.cancer.gov/files/35f067e5-fde1-4793-8d6b-d9ddd951b7c5 |
| 365068be-2415-462b-b3a4-418e4191274c | https://portal.gdc.cancer.gov/files/365068be-2415-462b-b3a4-418e4191274c |
| 369e78e8-f553-4fe0-88d2-908b624b6f8b | https://portal.gdc.cancer.gov/files/369e78e8-f553-4fe0-88d2-908b624b6f8b |
| 3700df53-8d95-4c95-9fea-64ea67e106b7 | https://portal.gdc.cancer.gov/files/3700df53-8d95-4c95-9fea-64ea67e106b7 |
| 370b35d8-24c2-4b73-94a2-48bef7b70ac9 | https://portal.gdc.cancer.gov/files/370b35d8-24c2-4b73-94a2-48bef7b70ac9 |
| 37610f08-0c05-425f-a5a6-967bfb02aa23 | https://portal.gdc.cancer.gov/files/37610f08-0c05-425f-a5a6-967bfb02aa23 |
| 37af3733-6068-4867-a545-39eef514dc12 | https://portal.gdc.cancer.gov/files/37af3733-6068-4867-a545-39eef514dc12 |
| 37de7b75-c885-44c8-9227-6600d37438df | https://portal.gdc.cancer.gov/files/37de7b75-c885-44c8-9227-6600d37438df |
| 381f27e4-5056-4fae-9f32-1e5d210f5d33 | https://portal.gdc.cancer.gov/files/381f27e4-5056-4fae-9f32-1e5d210f5d33 |
| 3903fc44-5102-44ab-a18e-774108846f70 | https://portal.gdc.cancer.gov/files/3903fc44-5102-44ab-a18e-774108846f70 |
| 39ceaa8f-92b2-43a5-b149-a3da8971cf57 | https://portal.gdc.cancer.gov/files/39ceaa8f-92b2-43a5-b149-a3da8971cf57 |
| 3a4353b6-a5ad-4950-be98-c0900e196144 | https://portal.gdc.cancer.gov/files/3a4353b6-a5ad-4950-be98-c0900e196144 |
| 3a826c9e-9966-4bbf-8ddb-e34f3c71381f | https://portal.gdc.cancer.gov/files/3a826c9e-9966-4bbf-8ddb-e34f3c71381f |
| 3a872621-c164-4e4a-8271-a637a726d63b | https://portal.gdc.cancer.gov/files/3a872621-c164-4e4a-8271-a637a726d63b |
| 3b16f864-d1ea-4ecf-b28d-cbce29b9bb47 | https://portal.gdc.cancer.gov/files/3b16f864-d1ea-4ecf-b28d-cbce29b9bb47 |
| 3b6b049d-65c4-4020-9ec5-5c6172ea4c4b | https://portal.gdc.cancer.gov/files/3b6b049d-65c4-4020-9ec5-5c6172ea4c4b |
| 3bb50e4a-840c-45e3-a312-b6d4a4bbf297 | https://portal.gdc.cancer.gov/files/3bb50e4a-840c-45e3-a312-b6d4a4bbf297 |
| 3c077b2a-3a89-4f08-93fa-ecf50f1f7e73 | https://portal.gdc.cancer.gov/files/3c077b2a-3a89-4f08-93fa-ecf50f1f7e73 |
| 3caa8628-d3d6-40d0-bfd1-0de2b2e9ed61 | https://portal.gdc.cancer.gov/files/3caa8628-d3d6-40d0-bfd1-0de2b2e9ed61 |
| 3e7b8842-d629-4fac-9da3-5d1c04c2a97e | https://portal.gdc.cancer.gov/files/3e7b8842-d629-4fac-9da3-5d1c04c2a97e |
| 3f1f1922-1263-4e5d-819b-2c89e8b5548d | https://portal.gdc.cancer.gov/files/3f1f1922-1263-4e5d-819b-2c89e8b5548d |
| 3f848440-1cde-4fc4-898c-088e47d48627 | https://portal.gdc.cancer.gov/files/3f848440-1cde-4fc4-898c-088e47d48627 |
| 4016e261-2cd4-4651-af30-de2cbf038a8a | https://portal.gdc.cancer.gov/files/4016e261-2cd4-4651-af30-de2cbf038a8a |
| 4075cc2e-ed70-4b2e-9520-542d18f4b797 | https://portal.gdc.cancer.gov/files/4075cc2e-ed70-4b2e-9520-542d18f4b797 |
| 40b00d5b-5a07-45c8-94d0-26fd8724dd93 | https://portal.gdc.cancer.gov/files/40b00d5b-5a07-45c8-94d0-26fd8724dd93 |
| 417b01fc-a6ad-4cff-b36d-99a6e4f349a1 | https://portal.gdc.cancer.gov/files/417b01fc-a6ad-4cff-b36d-99a6e4f349a1 |
| 426b0e75-593f-4992-b355-b751160e05a0 | https://portal.gdc.cancer.gov/files/426b0e75-593f-4992-b355-b751160e05a0 |
| 42fa0391-2d81-4453-a579-479ed12c9941 | https://portal.gdc.cancer.gov/files/42fa0391-2d81-4453-a579-479ed12c9941 |
| 4341af2d-dee1-4b4a-ad27-00858396c886 | https://portal.gdc.cancer.gov/files/4341af2d-dee1-4b4a-ad27-00858396c886 |
| 4471dc96-3a94-410f-ba82-b3846aedea59 | https://portal.gdc.cancer.gov/files/4471dc96-3a94-410f-ba82-b3846aedea59 |
| 448a4db4-c17f-4838-b864-7a776e4b5505 | https://portal.gdc.cancer.gov/files/448a4db4-c17f-4838-b864-7a776e4b5505 |
| 4718e60a-dc0a-4f8c-8af1-7067dba3aac3 | https://portal.gdc.cancer.gov/files/4718e60a-dc0a-4f8c-8af1-7067dba3aac3 |
| 472cb976-5b95-4130-bda1-243e24e2bd80 | https://portal.gdc.cancer.gov/files/472cb976-5b95-4130-bda1-243e24e2bd80 |
| 476c323f-4a20-41a3-91b3-7c9a81b4fbc1 | https://portal.gdc.cancer.gov/files/476c323f-4a20-41a3-91b3-7c9a81b4fbc1 |
| 477b84d7-1ae0-42f9-91d5-3d63f89d10d2 | https://portal.gdc.cancer.gov/files/477b84d7-1ae0-42f9-91d5-3d63f89d10d2 |
| 48d0a941-117d-472c-8a5e-533aeb9f03f2 | https://portal.gdc.cancer.gov/files/48d0a941-117d-472c-8a5e-533aeb9f03f2 |
| 4a217865-bbc4-4d8d-ba04-cb53bcd6d208 | https://portal.gdc.cancer.gov/files/4a217865-bbc4-4d8d-ba04-cb53bcd6d208 |
| 4a39b419-4c93-4c65-bdc3-075c1c067a41 | https://portal.gdc.cancer.gov/files/4a39b419-4c93-4c65-bdc3-075c1c067a41 |
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