# Supplementary Material

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TABLE

| id | gen_accession | status | collection_date | last_update_date | type | channel_listed | [illegible] | [illegible] | [illegible]

Table S2

| title | geo_accession | status | submission_date | last_update_date | type | channel_count | source_name_ch1 | organism_ch1 | characteristics_ch1 | characteristics_ch1.1 | characteristics_ch1.2 | characteristics_ch1.3 | characteristics_ch1.4 | molecule_ch1 | extract_protocol_ch1 | label_ch1 | label_protocol_ch1 | taxid_ch1 | hyb_protocol | scan_protocol | data_processing | platform_id | contact_name | contact_email | contact_phone | contact_laboratory | contact_department | contact_institute | contact_address | contact_city | contact_state | contact_zip/postal_code | contact_country | supplementary_file | data_row_count | diagnosis:ch1 | method:ch1 | patient id:ch1 | region:ch1 | tissue: |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GSM2409531_4_AD_13_dermis_Biopsies | GSM2409531 | Public on Oct 02 2018 | Oct 01 2018 | Oct 02 2018 | RNA | | 4_AD_13_dermis_Biopsies | Homo sapiens | patient id: 4 | method: LCM | diagnosis: AD | tissue: LS | region: dermis | Total RNA | QIAGEN Beneaze Kit | biotin | Affymetrix double amplification protocol | 9606 | Affymetrix protocol | Hewlett-Packard GeneArray Scanner G2500An | GPL570 | James_Krueger | krueger@rockefeller.edu | 212-327-7230 | Laboratory of Investigative Dermatology | Center for Clinical and Translational Science | The Rockefeller University | 1230 York Avenue | New York | NY | 10065 | USA | ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2409nnn/GSM2409531/suppl/GSM2409531_4_AD_13_dermis_Biopsies.CEL.gz | 54675 | AD | LCM | 4 | dermis | LS |
| GSM2409532_4_AD_13_epidermis_Biopsies | GSM2409532 | Public on Oct 02 2018 | Oct 01 2018 | Oct 02 2018 | RNA | | 4_AD_13_epidermis_Biopsies | Homo sapiens | patient id: 4 | method: LCM | diagnosis: AD | tissue: LS | region: epidermis | Total RNA | QIAGEN Beneaze Kit | biotin | Affymetrix double amplification protocol | 9606 | Affymetrix protocol | Hewlett-Packard GeneArray Scanner G2500An | GPL570 | James_Krueger | krueger@rockefeller.edu | 212-327-7230 | Laboratory of Investigative Dermatology | Center for Clinical and Translational Science | The Rockefeller University | 1230 York Avenue | New York | NY | 10065 | USA | ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2409nnn/GSM2409532/suppl/GSM2409532_4_AD_13_epidermis_Biopsies.CEL.gz | 54675 | AD | LCM | 4 | epidermis | LS |
| GSM2409533_4_AD_NL_dermis_Biopsies | GSM2409533 | Public on Oct 02 2018 | Oct 01 2018 | Oct 02 2018 | RNA | | 4_AD_NL_dermis_Biopsies | Homo sapiens | patient id: 4 | method: LCM | diagnosis: AD | tissue: NL | region: dermis | Total RNA | QIAGEN Beneaze Kit | biotin | Affymetrix double amplification protocol | 9606 | Affymetrix protocol | Hewlett-Packard GeneArray Scanner G2500An | GPL570 | James_Krueger | krueger@rockefeller.edu | 212-327-7230 | Laboratory of Investigative Dermatology | Center for Clinical and Translational Science | The Rockefeller University | 1230 York Avenue | New York | NY | 10065 | USA | ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2409nnn/GSM2409533/suppl/GSM2409533_4_AD_NL_dermis_Biopsies.CEL.gz | 54675 | AD | LCM | 4 | dermis | NL |
| GSM2409534_4_AD_NL_epidermis_Biopsies | GSM2409534 | Public on Oct 02 2018 | Oct 01 2018 | Oct 02 2018 | RNA | | 4_AD_NL_epidermis_Biopsies | Homo sapiens | patient id: 4 | method: LCM | diagnosis: AD | tissue: NL | region: epidermis | Total RNA | QIAGEN Beneaze Kit | biotin | Affymetrix double amplification protocol | 9606 | Affymetrix protocol | Hewlett-Packard GeneArray Scanner G2500An | GPL570 | James_Krueger | krueger@rockefeller.edu | 212-327-7230 | Laboratory of Investigative Dermatology | Center for Clinical and Translational Science | The Rockefeller University | 1230 York Avenue | New York | NY | 10065 | USA | ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2409nnn/GSM2409534/suppl/GSM2409534_4_AD_NL_epidermis_Biopsies.CEL.gz | 54675 | AD | LCM | 4 | epidermis | NL |
| GSM2409535_4_AD_NL_whole_tissue_Biopsies | GSM2409535 | Public on Oct 02 2018 | Oct 01 2018 | Oct 02 2018 | RNA | | 4_AD_NL_whole_tissue_Biopsies | Homo sapiens | patient id: 4 | method: LCM | diagnosis: AD | tissue: NL | region: whole_tissue | Total RNA | QIAGEN Beneaze Kit | biotin | Affymetrix double amplification protocol | 9606 | Affymetrix protocol | Hewlett-Packard GeneArray Scanner G2500An | GPL570 | James_Krueger | krueger@rockefeller.edu | 212-327-7230 | Laboratory of Investigative Dermatology | Center for Clinical and Translational Science | The Rockefeller University | 1230 York Avenue | New York | NY | 10065 | USA | ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2409nnn/GSM2409535/suppl/GSM2409535_4_AD_NL_whole_tissue_Biopsies.CEL.gz | 54675 | AD | LCM | 4 | whole_tissue | NL |
| GSM2409536_5_AD_13_dermis_Biopsies | GSM2409536 | Public on Oct 02 2018 | Oct 01 2018 | Oct 02 2018 | RNA | | 5_AD_13_dermis_Biopsies | Homo sapiens | patient id: 5 | method: LCM | diagnosis: AD | tissue: LS | region: dermis | Total RNA | QIAGEN Beneaze Kit | biotin | Affymetrix double amplification protocol | 9606 | Affymetrix protocol | Hewlett-Packard GeneArray Scanner G2500An | GPL570 | James_Krueger | krueger@rockefeller.edu | 212-327-7230 | Laboratory of Investigative Dermatology | Center for Clinical and Translational Science | The Rockefeller University | 1230 York Avenue | New York | NY | 10065 | USA | ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2409nnn/GSM2409536/suppl/GSM2409536_5_AD_13_dermis_Biopsies.CEL.gz | 54675 | AD | LCM | 5 | dermis | LS |
| GSM2409537_5_AD_13_epidermis_Biopsies | GSM2409537 | Public on Oct 02 2018 | Oct 01 2018 | Oct 02 2018 | RNA | | 5_AD_13_epidermis_Biopsies | Homo sapiens | patient id: 5 | method: LCM | diagnosis: AD | tissue: LS | region: epidermis | Total RNA | QIAGEN Beneaze Kit | biotin | Affymetrix double amplification protocol | 9606 | Affymetrix protocol | Hewlett-Packard GeneArray Scanner G2500An | GPL570 | James_Krueger | krueger@rockefeller.edu | 212-327-7230 | Laboratory of Investigative Dermatology | Center for Clinical and Translational Science | The Rockefeller University | 1230 York Avenue | New York | NY | 10065 | USA | ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2409nnn/GSM2409537/suppl/GSM2409537_5_AD_13_epidermis_Biopsies.CEL.gz | 54675 | AD | LCM | 5 | epidermis | LS |
| GSM2409538_5_AD_NL_dermis_Biopsies | GSM2409538 | Public on Oct 02 2018 | Oct 01 2018 | Oct 02 2018 | RNA | | 5_AD_NL_dermis_Biopsies | Homo sapiens | patient id: 5 | method: LCM | diagnosis: AD | tissue: NL | region: dermis | Total RNA | QIAGEN Beneaze Kit | biotin | Affymetrix double amplification protocol | 9606 | Affymetrix protocol | Hewlett-Packard GeneArray Scanner G2500An | GPL570 | James_Krueger | krueger@rockefeller.edu | 212-327-7230 | Laboratory of Investigative Dermatology | Center for Clinical and Translational Science | The Rockefeller University | 1230 York Avenue | New York | NY | 10065 | USA | ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2409nnn/GSM2409538/suppl/GSM2409538_5_AD_NL_dermis_Biopsies.CEL.gz | 54675 | AD | LCM | 5 | dermis | NL |
| GSM2409539_5_AD_NL_epidermis_Biopsies | GSM2409539 | Public on Oct 02 2018 | Oct 01 2018 | Oct 02 2018 | RNA | | 5_AD_NL_epidermis_Biopsies | Homo sapiens | patient id: 5 | method: LCM | diagnosis: AD | tissue: NL | region: epidermis | Total RNA | QIAGEN Beneaze Kit | biotin | Affymetrix double amplification protocol | 9606 | Affymetrix protocol | Hewlett-Packard GeneArray Scanner G2500An | GPL570 | James_Krueger | krueger@rockefeller.edu | 212-327-7230 | Laboratory of Investigative Dermatology | Center for Clinical and Translational Science | The Rockefeller University | 1230 York Avenue | New York | NY | 10065 | USA | ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2409nnn/GSM2409539/suppl/GSM2409539_5_AD_NL_epidermis_Biopsies.CEL.gz | 54675 | AD | LCM | 5 | epidermis | NL |
| GSM2409540_5_AD_NL_whole_tissue_Biopsies | GSM2409540 | Public on Oct 02 2018 | Oct 01 2018 | Oct 02 2018 | RNA | | 5_AD_NL_whole_tissue_Biopsies | Homo sapiens | patient id: 5 | method: LCM | diagnosis: AD | tissue: NL | region: whole_tissue | Total RNA | QIAGEN Beneaze Kit | biotin | Affymetrix double amplification protocol | 9606 | Affymetrix protocol | Hewlett-Packard GeneArray Scanner G2500An | GPL570 | James_Krueger | krueger@rockefeller.edu | 212-327-7230 | Laboratory of Investigative Dermatology | Center for Clinical and Translational Science | The Rockefeller University | 1230 York Avenue | New York | NY | 10065 | USA | ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2409nnn/GSM2409540/suppl/GSM2409540_5_AD_NL_whole_tissue_Biopsies.CEL.gz | 54675 | AD | LCM | 5 | whole_tissue | NL |
| GSM2409541_6_AD_13_dermis_Biopsies | GSM2409541 | Public on Oct 02 2018 | Oct 01 2018 | Oct 02 2018 | RNA | | 6_AD_13_dermis_Biopsies | Homo sapiens | patient id: 6 | method: LCM | diagnosis: AD | tissue: LS | region: dermis | Total RNA | QIAGEN Beneaze Kit | biotin | Affymetrix double amplification protocol | 9606 | Affymetrix protocol | Hewlett-Packard GeneArray Scanner G2500An | GPL570 | James_Krueger | krueger@rockefeller.edu | 212-327-7230 | Laboratory of Investigative Dermatology | Center for Clinical and Translational Science | The Rockefeller University | 1230 York Avenue | New York | NY | 10065 | USA | ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2409nnn/GSM2409541/suppl/GSM2409541_6_AD_13_dermis_Biopsies.CEL.gz | 54675 | AD | LCM | 6 | dermis | LS |
| GSM2409542_6_AD_13_epidermis_Biopsies | GSM2409542 | Public on Oct 02 2018 | Oct 01 2018 | Oct 02 2018 | RNA | | 6_AD_13_epidermis_Biopsies | Homo sapiens | patient id: 6 | method: LCM | diagnosis: AD | tissue: LS | region: epidermis | Total RNA | QIAGEN Beneaze Kit | biotin | Affymetrix double amplification protocol | 9606 | Affymetrix protocol | Hewlett-Packard GeneArray Scanner G2500An | GPL570 | James_Krueger | krueger@rockefeller.edu | 212-327-7230 | Laboratory of Investigative Dermatology | Center for Clinical and Translational Science | The Rockefeller University | 1230 York Avenue | New York | NY | 10065 | USA | ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2409nnn/GSM2409542/suppl/GSM2409542_6_AD_13_epidermis_Biopsies.CEL.gz | 54675 | AD | LCM | 6 | epidermis | LS |
| GSM2409543_6_AD_NL_dermis_Biopsies | GSM2409543 | Public on Oct 02 2018 | Oct 01 2018 | Oct 02 2018 | RNA | | 6_AD_NL_dermis_Biopsies | Homo sapiens | patient id: 6 | method: LCM | diagnosis: AD | tissue: NL | region: dermis | Total RNA | QIAGEN Beneaze Kit | biotin | Affymetrix double amplification protocol | 9606 | Affymetrix protocol | Hewlett-Packard GeneArray Scanner G2500An | GPL570 | James_Krueger | krueger@rockefeller.edu | 212-327-7230 | Laboratory of Investigative Dermatology | Center for Clinical and Translational Science | The Rockefeller University | 1230 York Avenue | New York | NY | 10065 | USA | ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2409nnn/GSM2409543/suppl/GSM2409543_6_AD_NL_dermis_Biopsies.CEL.gz | 54675 | AD | LCM | 6 | dermis | NL |
| GSM2409544_6_AD_NL_epidermis_Biopsies | GSM2409544 | Public on Oct 02 2018 | Oct 01 2018 | Oct 02 2018 | RNA | | 6_AD_NL_epidermis_Biopsies | Homo sapiens | patient id: 6 | method: LCM | diagnosis: AD | tissue: NL | region: epidermis | Total RNA | QIAGEN Beneaze Kit | biotin | Affymetrix double amplification protocol | 9606 | Affymetrix protocol | Hewlett-Packard GeneArray Scanner G2500An | GPL570 | James_Krueger | krueger@rockefeller.edu | 212-327-7230 | Laboratory of Investigative Dermatology | Center for Clinical and Translational Science | The Rockefeller University | 1230 York Avenue | New York | NY | 10065 | USA | ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2409nnn/GSM2409544/suppl/GSM2409544_6_AD_NL_epidermis_Biopsies.CEL.gz | 54675 | AD | LCM | 6 | epidermis | NL |
| GSM2409545_6_AD_NL_whole_tissue_Biopsies | GSM2409545 | Public on Oct 02 2018 | Oct 01 2018 | Oct 02 2018 | RNA | | 6_AD_NL_whole_tissue_Biopsies | Homo sapiens | patient id: 6 | method: LCM | diagnosis: AD | tissue: NL | region: whole_tissue | Total RNA | QIAGEN Beneaze Kit | biotin | Affymetrix double amplification protocol | 9606 | Affymetrix protocol | Hewlett-Packard GeneArray Scanner G2500An | GPL570 | James_Krueger | krueger@rockefeller.edu | 212-327-7230 | Laboratory of Investigative Dermatology | Center for Clinical and Translational Science | The Rockefeller University | 1230 York Avenue | New York | NY | 10065 | USA | ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2409nnn/GSM2409545/suppl/GSM2409545_6_AD_NL_whole_tissue_Biopsies.CEL.gz | 54675 | AD | LCM | 6 | whole_tissue | NL |
| GSM2409546_8_AD_13_dermis_Biopsies | GSM2409546 | Public on Oct 02 2018 | Oct 01 2018 | Oct 02 2018 | RNA | | 8_AD_13_dermis_Biopsies | Homo sapiens | patient id: 8 | method: LCM | diagnosis: AD | tissue: LS | region: dermis | Total RNA | QIAGEN Beneaze Kit | biotin | Affymetrix double amplification protocol | 9606 | Affymetrix protocol | Hewlett-Packard GeneArray Scanner G2500An | GPL570 | James_Krueger | krueger@rockefeller.edu | 212-327-7230 | Laboratory of Investigative Dermatology | Center for Clinical and Translational Science | The Rockefeller University | 1230 York Avenue | New York | NY | 10065 | USA | ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2409nnn/GSM2409546/suppl/GSM2409546_8_AD_13_dermis_Biopsies.CEL.gz | 54675 | AD | LCM | 8 | dermis | LS |
| GSM2409547_8_AD_13_epidermis_Biopsies | GSM2409547 | Public on Oct 02 2018 | Oct 01 2018 | Oct 02 2018 | RNA | | 8_AD_13_epidermis_Biopsies | Homo sapiens | patient id: 8 | method: LCM | diagnosis: AD | tissue: LS | region: epidermis | Total RNA | QIAGEN Beneaze Kit | biotin | Affymetrix double amplification protocol | 9606 | Affymetrix protocol | Hewlett-Packard GeneArray Scanner G2500An | GPL570 | James_Krueger | krueger@rockefeller.edu | 212-327-7230 | Laboratory of Investigative Dermatology | Center for Clinical and Translational Science | The Rockefeller University | 1230 York Avenue | New York | NY | 10065 | USA | ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2409nnn/GSM2409547/suppl/GSM2409547_8_AD_13_epidermis_Biopsies.CEL.gz | 54675 | AD | LCM | 8 | epidermis | LS |
| GSM2409548_8_AD_NL_dermis_Biopsies | GSM2409548 | Public on Oct 02 2018 | Oct 01 2018 | Oct 02 2018 | RNA | | 8_AD_NL_dermis_Biopsies | Homo sapiens | patient id: 8 | method: LCM | diagnosis: AD | tissue: NL | region: dermis | Total RNA | QIAGEN Beneaze Kit | biotin | Affymetrix double amplification protocol | 9606 | Affymetrix protocol | Hewlett-Packard GeneArray Scanner G2500An | GPL570 | James_Krueger | krueger@rockefeller.edu | 212-327-7230 | Laboratory of Investigative Dermatology | Center for Clinical and Translational Science | The Rockefeller University | 1230 York Avenue | New York | NY | 10065 | USA | ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2409nnn/GSM2409548/suppl/GSM2409548_8_AD_NL_dermis_Biopsies.CEL.gz | 54675 | AD | LCM | 8 | dermis | NL |
| GSM2409549_8_AD_NL_epidermis_Biopsies | GSM2409549 | Public on Oct 02 2018 | Oct 01 2018 | Oct 02 2018 | RNA | | 8_AD_NL_epidermis_Biopsies | Homo sapiens | patient id: 8 | method: LCM | diagnosis: AD | tissue: NL | region: epidermis | Total RNA | QIAGEN Beneaze Kit | biotin | Affymetrix double amplification protocol | 9606 | Affymetrix protocol | Hewlett-Packard GeneArray Scanner G2500An | GPL570 | James_Krueger | krueger@rockefeller.edu | 212-327-7230 | Laboratory of Investigative Dermatology | Center for Clinical and Translational Science | The Rockefeller University | 1230 York Avenue | New York | NY | 10065 | USA | ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2409nnn/GSM2409549/suppl/GSM2409549_8_AD_NL_epidermis_Biopsies.CEL.gz | 54675 | AD | LCM | 8 | epidermis | NL |
| GSM2409550_8_AD_NL_whole_tissue_Biopsies | GSM2409550 | Public on Oct 02 2018 | Oct 01 2018 | Oct 02 2018 | RNA | | 8_AD_NL_whole_tissue_Biopsies | Homo sapiens | patient id: 8 | method: LCM | diagnosis: AD | tissue: NL | region: whole_tissue | Total RNA | QIAGEN Beneaze Kit | biotin | Affymetrix double amplification protocol | 9606 | Affymetrix protocol | Hewlett-Packard GeneArray Scanner G2500An | GPL570 | James_Krueger | krueger@rockefeller.edu | 212-327-7230 | Laboratory of Investigative Dermatology | Center for Clinical and Translational Science | The Rockefeller University | 1230 York Avenue | New York | NY | 10065 | USA | ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2409nnn/GSM2409550/suppl/GSM2409550_8_AD_NL_whole_tissue_Biopsies.CEL.gz | 54675 | AD | LCM | 8 | whole_tissue | NL |
| GSM2409551_9_AD_13_dermis_Biopsies | GSM2409551 | Public on Oct 02 2018 | Oct 01 2018 | Oct 02 2018 | RNA | | 9_AD_13_dermis_Biopsies | Homo sapiens | patient id: 9 | method: LCM | diagnosis: AD | tissue: LS | region: dermis | Total RNA | QIAGEN Beneaze Kit | biotin | Affymetrix double amplification protocol | 9606 | Affymetrix protocol | Hewlett-Packard GeneArray Scanner G2500An | GPL570 | James_Krueger | krueger@rockefeller.edu | 212-327-7230 | Laboratory of Investigative Dermatology | Center for Clinical and Translational Science | The Rockefeller University | 1230 York Avenue | New York | NY | 10065 | USA | ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2409nnn/GSM2409551/suppl/GSM2409551_9_AD_13_dermis_Biopsies.CEL.gz | 54675 | AD | LCM | 9 | dermis | LS |
| GSM2409552_9_AD_13_epidermis_Biopsies | GSM2409552 | Public on Oct 02 2018 | Oct 01 2018 | Oct 02 2018 | RNA | | 9_AD_13_epidermis_Biopsies | Homo sapiens | patient id: 9 | method: LCM | diagnosis: AD | tissue: LS | region: epidermis | Total RNA | QIAGEN Beneaze Kit | biotin | Affymetrix double amplification protocol | 9606 | Affymetrix protocol | Hewlett-Packard GeneArray Scanner G2500An | GPL570 | James_Krueger | krueger@rockefeller.edu | 212-327-7230 | Laboratory of Investigative Dermatology | Center for Clinical and Translational Science | The Rockefeller University | 1230 York Avenue | New York | NY | 10065 | USA | ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2409nnn/GSM2409552/suppl/GSM2409552_9_AD_13_epidermis_Biopsies.CEL.gz | 54675 | AD | LCM | 9 | epidermis | LS |
| GSM2409553_9_AD_NL_dermis_Biopsies | GSM2409553 | Public on Oct 02 2018 | Oct 01 2018 | Oct 02 2018 | RNA | | 9_AD_NL_dermis_Biopsies | Homo sapiens | patient id: 9 | method: LCM | diagnosis: AD | tissue: NL | region: dermis | Total RNA | QIAGEN Beneaze Kit | biotin | Affymetrix double amplification protocol | 9606 | Affymetrix protocol | Hewlett-Packard GeneArray Scanner G2500An | GPL570 | James_Krueger | krueger@rockefeller.edu | 212-327-7230 | Laboratory of Investigative Dermatology | Center for Clinical and Translational Science | The Rockefeller University | 1230 York Avenue | New York | NY | 10065 | USA | ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2409nnn/GSM2409553/suppl/GSM2409553_9_AD_NL_dermis_Biopsies.CEL.gz | 54675 | AD | LCM | 9 | dermis | NL |
| GSM2409554_9_AD_NL_epidermis_Biopsies | GSM2409554 | Public on Oct 02 2018 | Oct 01 2018 | Oct 02 2018 | RNA | | 9_AD_NL_epidermis_Biopsies | Homo sapiens | patient id: 9 | method: LCM | diagnosis: AD | tissue: NL | region: epidermis | Total RNA | QIAGEN Beneaze Kit | biotin | Affymetrix double amplification protocol | 9606 | Affymetrix protocol | Hewlett-Packard GeneArray Scanner G2500An | GPL570 | James_Krueger | krueger@rockefeller.edu | 212-327-7230 | Laboratory of Investigative Dermatology | Center for Clinical and Translational Science | The Rockefeller University | 1230 York Avenue | New York | NY | 10065 | USA | ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2409nnn/GSM2409554/suppl/GSM2409554_9_AD_NL_epidermis_Biopsies.CEL.gz | 54675 | AD | LCM | 9 | epidermis | NL |
| GSM2409555_9_AD_NL_whole_tissue_Biopsies | GSM2409555 | Public on Oct 02 2018 | Oct 01 2018 | Oct 02 2018 | RNA | | 9_AD_NL_whole_tissue_Biopsies | Homo sapiens | patient id: 9 | method: LCM | diagnosis: AD | tissue: NL | region: whole_tissue | Total RNA | QIAGEN Beneaze Kit | biotin | Affymetrix double amplification protocol | 9606 | Affymetrix protocol | Hewlett-Packard GeneArray Scanner G2500An | GPL570 | James_Krueger | krueger@rockefeller.edu | 212-327-7230 | Laboratory of Investigative Dermatology | Center for Clinical and Translational Science | The Rockefeller University | 1230 York Avenue | New York | NY | 10065 | USA | ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2409nnn/GSM2409555/suppl/GSM2409555_9_AD_NL_whole_tissue_Biopsies.CEL.gz | 54675 | AD | LCM | 9 | whole_tissue | NL |
| GSM2409556_2_Normal_NN_dermis_Biopsies | GSM2409556 | Public on Oct 02 2018 | Oct 01 2018 | Oct 02 2018 | RNA | | 2_Normal_NN_dermis_Biopsies | Homo sapiens | patient id: 2 | method: LCM | diagnosis: Normal | tissue: NN | region: dermis | Total RNA | QIAGEN Beneaze Kit | biotin | Affymetrix double amplification protocol | 9606 | Affymetrix protocol | Hewlett-Packard GeneArray Scanner G2500An | GPL570 | James_Krueger | krueger@rockefeller.edu | 212-327-7230 | Laboratory of Investigative Dermatology | Center for Clinical and Translational Science | The Rockefeller University | 1230 York Avenue | New York | NY | 10065 | USA | ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2409nnn/GSM2409556/suppl/GSM2409556_2_Normal_NN_dermis_Biopsies.CEL.gz | 54675 | Normal | LCM | 2 | dermis | NN |
| GSM2409557_29_Normal_NN_epidermis_Biopsies | GSM2409557 | Public on Oct 02 2018 | Oct 01 2018 | Oct 02 2018 | RNA | | 29_Normal_NN_epidermis_Biopsies | Homo sapiens | patient id: 29 | method: LCM | diagnosis: Normal | tissue: NN | region: epidermis | Total RNA | QIAGEN Beneaze Kit | biotin | Affymetrix double amplification protocol | 9606 | Affymetrix protocol | Hewlett-Packard GeneArray Scanner G2500An | GPL570 | James_Krueger | krueger@rockefeller.edu | 212-327-7230 | Laboratory of Investigative Dermatology | Center for Clinical and Translational Science | The Rockefeller University | 1230 York Avenue | New York | NY | 10065 | USA | ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2409nnn/GSM2409557/suppl/GSM2409557_29_Normal_NN_epidermis_Biopsies.CEL.gz | 54675 | Normal | LCM | 29 | epidermis | NN |
| GSM2409558_25_Normal_NN_dermis_Biopsies | GSM2409558 | Public on Oct 02 2018 | Oct 01 2018 | Oct 02 2018 | RNA | | 25_Normal_NN_dermis_Biopsies | Homo sapiens | patient id: 25 | method: LCM | diagnosis: Normal | tissue: NN | region: dermis | Total RNA | QIAGEN Beneaze Kit | biotin | Affymetrix double amplification protocol | 9606 | Affymetrix protocol | Hewlett-Packard GeneArray Scanner G2500An | GPL570 | James_Krueger | krueger@rockefeller.edu | 212-327-7230 | Laboratory of Investigative Dermatology | Center for Clinical and Translational Science | The Rockefeller University | 1230 York Avenue | New York | NY | 10065 | USA | ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2409nnn/GSM2409558/suppl/GSM2409558_25_Normal_NN_dermis_Biopsies.CEL.gz | 54675 | Normal | LCM | 25 | dermis | NN |
| GSM2409559_25_Normal_NN_epidermis_Biopsies | GSM2409559 | Public on Oct 02 2018 | Oct 01 2018 | Oct 02 2018 | RNA | | 25_Normal_NN_epidermis_Biopsies | Homo sapiens | patient id: 25 | method: LCM | diagnosis: Normal | tissue: NN | region: epidermis | Total RNA | QIAGEN Beneaze Kit | biotin | Affymetrix double amplification protocol | 9606 | Affymetrix protocol | Hewlett-Packard GeneArray Scanner G2500An | GPL570 | James_Krueger | krueger@rockefeller.edu | 212-327-7230 | Laboratory of Investigative Dermatology | Center for Clinical and Translational Science | The Rockefeller University | 1230 York Avenue | New York | NY | 10065 | USA | ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2409nnn/GSM2409559/suppl/GSM2409559_25_Normal_NN_epidermis_Biopsies.CEL.gz | 54675 | Normal | LCM | 25 | epidermis | NN |
| GSM2409560_40_Normal_NN_dermis_Biopsies | GSM2409560 | Public on Oct 02 2018 | Oct 01 2018 | Oct 02 2018 | RNA | | 40_Normal_NN_dermis_Biopsies | Homo sapiens | patient id: 40 | method: LCM | diagnosis: Normal | tissue: NN | region: dermis | Total RNA | QIAGEN Beneaze Kit | biotin | Affymetrix double amplification protocol | 9606 | Affymetrix protocol | Hewlett-Packard GeneArray Scanner G2500An | GPL570 | James_Krueger | krueger@rockefeller.edu | 212-327-7230 | Laboratory of Investigative Dermatology | Center for Clinical and Translational Science | The Rockefeller University | 1230 York Avenue | New York | NY | 10065 | USA | ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2409nnn/GSM2409560/suppl/GSM2409560_40_Normal_NN_dermis_Biopsies.CEL.gz | 54675 | Normal | LCM | 40 | dermis | NN |
| GSM2409561_40_Normal_NN_epidermis_Biopsies | GSM2409561 | Public on Oct 02 2018 | Oct 01 2018 | Oct 02 2018 | RNA | | 40_Normal_NN_epidermis_Biopsies | Homo sapiens | patient id: 40 | method: LCM | diagnosis: Normal | tissue: NN | region: epidermis | Total RNA | QIAGEN Beneaze Kit | biotin | Affymetrix double amplification protocol | 9606 | Affymetrix protocol | Hewlett-Packard GeneArray Scanner G2500An | GPL570 | James_Krueger | krueger@rockefeller.edu | 212-327-7230 | Laboratory of Investigative Dermatology | Center for Clinical and Translational Science | The Rockefeller University | 1230 York Avenue | New York | NY | 10065 | USA | ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2409nnn/GSM2409561/suppl/GSM2409561_40_Normal_NN_epidermis_Biopsies.CEL.gz | 54675 | Normal | LCM | 40 | epidermis | NN |
| GSM2409562_33_Normal_NN_whole_tissue_Biopsies | GSM2409562 | Public on Oct 02 2018 | Oct 01 2018 | Oct 02 2018 | RNA | | 33_Normal_NN_whole_tissue_Biopsies | Homo sapiens | patient id: 33 | method: LCM | diagnosis: Normal | tissue: NN | region: whole_tissue | Total RNA | QIAGEN Beneaze Kit | biotin | Affymetrix double amplification protocol | 9606 | Affymetrix protocol | Hewlett-Packard GeneArray Scanner G2500An | GPL570 | James_Krueger | krueger@rockefeller.edu | 212-327-7230 | Laboratory of Investigative Dermatology | Center for Clinical and Translational Science | The Rockefeller University | 1230 York Avenue | New York | NY | 10065 | USA | ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2409nnn/GSM2409562/suppl/GSM2409562_33_Normal_NN_whole_tissue_Biopsies.CEL.gz | 54675 | Normal | LCM | 33 | whole_tissue | NN |
| GSM2409563_60_Normal_NN_dermis_Biopsies | GSM2409563 | Public on Oct 02 2018 | Oct 01 2018 | Oct 02 2018 | RNA | | 60_Normal_NN_dermis_Biopsies | Homo sapiens | patient id: 60 | method: LCM | diagnosis: Normal | tissue: NN | region: dermis | Total RNA | QIAGEN Beneaze Kit | biotin | Affymetrix double amplification protocol | 9606 | Affymetrix protocol | Hewlett-Packard GeneArray Scanner G2500An | GPL570 | James_Krueger | krueger@rockefeller.edu | 212-327-7230 | Laboratory of Investigative Dermatology | Center for Clinical and Translational Science | The Rockefeller University | 1230 York Avenue | New York | NY | 10065 | USA | ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2409nnn/GSM2409563/suppl/GSM2409563_60_Normal_NN_dermis_Biopsies.CEL.gz | 54675 | Normal | LCM | 60 | dermis | NN |
| GSM2409564_60_Normal_NN_epidermis_Biopsies | GSM2409564 | Public on Oct 02 2018 | Oct 01 2018 | Oct 02 2018 | RNA | | 60_Normal_NN_epidermis_Biopsies | Homo sapiens | patient id: 60 | method: LCM | diagnosis: Normal | tissue: NN | region: epidermis | Total RNA | QIAGEN Beneaze Kit | biotin | Affymetrix double amplification protocol | 9606 | Affymetrix protocol | Hewlett-Packard GeneArray Scanner G2500An | GPL570 | James_Krueger | krueger@rockefeller.edu | 212-327-7230 | Laboratory of Investigative Dermatology | Center for Clinical and Translational Science | The Rockefeller University | 1230 York Avenue | New York | NY | 10065 | USA | ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2409nnn/GSM2409564/suppl/GSM2409564_60_Normal_NN_epidermis_Biopsies.CEL.gz | 54675 | Normal | LCM | 60 | epidermis | NN |
| GSM2409565_75_Normal_NN_epidermis_Biopsies | GSM2409565 | Public on Oct 02 2018 | Oct 01 2018 | Oct 02 2018 | RNA | | 75_Normal_NN_epidermis_Biopsies | Homo sapiens | patient id: 75 | method: LCM | diagnosis: Normal | tissue: NN | region: epidermis | Total RNA | QIAGEN Beneaze Kit | biotin | Affymetrix double amplification protocol | 9606 | Affymetrix protocol | Hewlett-Packard GeneArray Scanner G2500An | GPL570 | James_Krueger | krueger@rockefeller.edu | 212-327-7230 | Laboratory of Investigative Dermatology | Center for Clinical and Translational Science | The Rockefeller University | 1230 York Avenue | New York | NY | 10065 | USA | ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2409nnn/GSM2409565/suppl/GSM2409565_75_Normal_NN_epidermis_Biopsies.CEL.gz | 54675 | Normal | LCM | 75 | epidermis | NN |
| GSM2409566_84_Normal_NN_dermis_Biopsies | GSM2409566 | Public on Oct 02 2018 | Oct 01 2018 | Oct 02 2018 | RNA | | 84_Normal_NN_dermis_Biopsies | Homo sapiens | patient id: 84 | method: LCM | diagnosis: Normal | tissue: NN | region: dermis | Total RNA | QIAGEN Beneaze Kit | biotin | Affymetrix double amplification protocol | 9606 | Affymetrix protocol | Hewlett-Packard GeneArray Scanner G2500An | GPL570 | James_Krueger | krueger@rockefeller.edu | 212-327-7230 | Laboratory of Investigative Dermatology | Center for Clinical and Translational Science | The Rockefeller University | 1230 York Avenue | New York | NY | 10065 | USA | ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2409nnn/GSM2409566/suppl/GSM2409566_84_Normal_NN_dermis_Biopsies.CEL.gz | 54675 | Normal | LCM | 84 | dermis | NN |
| GSM2409567_84_Normal_NN_epidermis_Biopsies | GSM2409567 | Public on Oct 02 2018 | Oct 01 2018 | Oct 02 2018 | RNA | | 84_Normal_NN_epidermis_Biopsies | Homo sapiens | patient id: 84 | method: LCM | diagnosis: Normal | tissue: NN | region: epidermis | Total RNA | QIAGEN Beneaze Kit | biotin | Affymetrix double amplification protocol | 9606 | Affymetrix protocol | Hewlett-Packard GeneArray Scanner G2500An | GPL570 | James_Krueger | krueger@rockefeller.edu | 212-327-7230 | Laboratory of Investigative Dermatology | Center for Clinical and Translational Science | The Rockefeller University | 1230 York Avenue | New York | NY | 10065 | USA | ftp://ftp.ncbi.nlm.nih.gov/geo/samples/GSM2409nnn/GSM2409567/suppl/GSM2409567_84_Normal_NN_epidermis_Biopsies.CEL.gz | 54675 | Normal | LCM | 84 | epidermis | NN |
| GSM2409568_96_Normal_NN_epidermis_Biopsies | GSM2409568 | Public on Oct 02 2018 

| ORDER_NO | ORDER_DATE | ORDER_REF | CUST_ORDER_REF | CUSTOMER_NAME | CUSTOMER_CITY | CUSTOMER_STATE | CUSTOMER_COUNTRY | CUSTOMER_CONTACT | CUSTOMER_EMAIL | ORDER_STATUS | ORDER_TOTAL | ORDER_CURRENCY | ORDER_DESCRIPTION | ORDER_NOTES | CUST_ID | TERMS_CODE | CARRIER_CODE | CARRIER_NAME | CARRIER_CONTACT | CARRIER_EMAIL | CARRIER_STATUS | CARRIER_LATITUDE | CARRIER_LONGITUDE | CARRIER_DESCRIPTION | CUSTOMER_IMAGE | TERMINAL_LATITUDE | TERMINAL_LONGITUDE | TERMINAL_DESCRIPTION | ORIGIN_PORT_CODE | ORIGIN_PORT_NAME | ORIGIN_PORT_CITY | ORIGIN_PORT_STATE | ORIGIN_PORT_COUNTRY | ORIGIN_PORT_LATITUDE | ORIGIN_PORT_LONGITUDE | ORIGIN_PORT_DESCRIPTION | DESTINATION_PORT_CODE | DESTINATION_PORT_NAME | DESTINATION_PORT_CITY | DESTINATION_PORT_STATE | DESTINATION_PORT_COUNTRY | DESTINATION_PORT_LATITUDE | DESTINATION_PORT_LONGITUDE | DESTINATION_PORT_DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1000001234 | 2021-01-24 00:00 | 21 02 0000 | 21 02 0000 | DN | Chris Service Solution | PAR | Paris | Chris Service Solution | paul.lucas@chris-service.com | Delivery | 2,000 | EUR | Chris Service Solution Paris Paris Chris Service Solution Paris Paris Chris Service Solution Paris Paris

Table S4

| | Circadian rhythm gene | | Circadian rhythm gene | | Circadian rhythm gene |
|---|---|---|---|---|---|
| 1 | ARNTL2 | 51 | CSNK1E | 101 | PTGDS |
| 2 | ATOH7 | 52 | ADCY1 | 102 | ROCK2 |
| 3 | BHLHE40 | 53 | ADORA1 | 103 | RORB |
| 4 | CRTC1 | 54 | ADRB1 | 104 | SFPQ |
| 5 | CRY1 | 55 | ATG7 | 105 | SIAH2 |
| 6 | CRY2 | 56 | CCAR2 | 106 | SIN3A |
| 7 | FBXL12 | 57 | CDK1 | 107 | SPSB4 |
| 8 | FBXL17 | 58 | CHRNB2 | 108 | SRRD |
| 9 | FBXL21P | 59 | CIPC | 109 | SUV39H1 |
| 10 | FBXL22 | 60 | CSF2 | 110 | SUV39H2 |
| 11 | FBXL3 | 61 | CSNK1D | 111 | TARDBP |
| 12 | FBXL6 | 62 | DDB1 | 112 | TIMELESS |
| 13 | FBXL8 | 63 | DRD2 | 113 | TOP2A |
| 14 | GNA11 | 64 | DRD3 | 114 | UBE3A |
| 15 | GNAQ | 65 | DRD4 | 115 | USP7 |
| 16 | ID2 | 66 | EZH2 | 116 | USP9X |
| 17 | MTA1 | 67 | FBXW7 | 117 | ZFHX3 |
| 18 | NR2F6 | 68 | GSK3B | | |
| 19 | OPN5 | 69 | HCRTR2 | | |
| 20 | PDE6B | 70 | HDAC3 | | |
| 21 | PER1 | 71 | HNF4A | | |
| 22 | PER2 | 72 | HNRNPD | | |
| 23 | PER3 | 73 | KCNA2 | | |
| 24 | PHLPP1 | 74 | KDM2A | | |
| 25 | PML | 75 | KLF10 | | |
| 26 | PPP1CA | 76 | MAGED1 | | |
| 27 | PPP1CB | 77 | MAGEL2 | | |
| 28 | PPP1CC | 78 | MAPK10 | | |
| 29 | RBM4 | 79 | MAPK8 | | |
| 30 | RBM4B | 80 | MAPK9 | | |
| 31 | SIK1 | 81 | MTOR | | |
| 32 | SOX14 | 82 | NOCT | | |
| 33 | TP53 | 83 | NONO | | |
| 34 | USP2 | 84 | NR1D1 | | |
| 35 | ADORA2A | 85 | NR1D2 | | |
| 36 | ARNTL | 86 | NR1H3 | | |
| 37 | BTRC | 87 | OPN3 | | |
| 38 | CLOCK | 88 | OPN4 | | |
| 39 | CRH | 89 | OPRL1 | | |
| 40 | FBXW11 | 90 | PASD1 | | |
| 41 | GHRH | 91 | PIWIL2 | | |
| 42 | GHRHR | 92 | PPARA | | |
| 43 | GHRL | 93 | PPARG | | |
| 44 | MTNR1B | 94 | PPARGC1A | | |
| 45 | NKX2-1 | 95 | PRKAA1 | | |
| 46 | NLGN1 | 96 | PRKAA2 | | |
| 47 | NPS | 97 | PRKCG | | |
| 48 | RORA | 98 | PRKDC | | |
| 49 | RORC | 99 | PROX1 | | |
| 50 | THRAP3 | 100 | PSPC1 | | |

| 行政区划代码 | 居委会数 | 乡村数 | 总户数 | 总人口 | 男性人口 | 女性人口 | 户籍人口 |
|---|---|---|---|---|---|---|---|
| 130104 | 10.000000 | 0.000000 | 41.000000 | 1.000000 | 1.000000 | 0.000000 | 1.000000 |
| 130105 | 10.000000 | 0.000000 | 41.000000 | 1.000000 | 1.000000 | 0.000000 | 1.000000 |
| 130106 | 10.000000 | 0.000000 | 41.000000 | 1.000000 | 1.000000 | 0.000000 | 1.000000 |
|

Table 56

| cell_type | A0_004_1mo(mm) | A0_004_no(mm) | A0_005_1mo(mm) | A0_005_no(mm) | A0_006_1mo(mm) | A0_006_no(mm) | A0_007_1mo(mm) | A0_007_no(mm) | A0_008_1mo(mm) | A0_008_no(mm) | A0_009_1mo(mm) | A0_009_no(mm) | A0_010_1mo(mm) | A0_010_no(mm) | A0_011_1mo(mm) | A0_011_no(mm) | A0_014_1mo(mm) | A0_014_no(mm) | A0_015_1mo(mm) | A0_015_no(mm) | A0_016_1mo(mm) | A0_016_no(mm) | A0_017_1mo(mm) | A0_017_no(mm) | A0_018_1mo(mm) | A0_018_no(mm) | A0_019_1mo(mm) | A0_019_no(mm) | A0_020_1mo(mm) | A0_020_no(mm) | A0_021_1mo(mm) | A0_021_no(mm) | A0_022_1mo(mm) | A0_022_no(mm) | A0_023_1mo(mm) | A0_023_no(mm) | A0_024_1mo(mm) | A0_024_no(mm) | A0_025_1mo(mm) | A0_025_no(mm) | A0_026_1mo(mm) | A0_026_no(mm) | A0_027_1mo(mm) | A0_027_no(mm) | A0_028_1mo(mm) | A0_028_no(mm) | A0_029_1mo(mm) | A0_029_no(mm) | A0_030_1mo(mm) | A0_030_no(mm) | A0_031_1mo(mm) | A0_031_no(mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B cell_TIMER | 0.27466528 | 0.06738882 | 0.07208868 | 0.06428439 | 0.09537781 | 0.06143347 | 0.12261496 | 0.05168735 | 0.14907199 | 0.08250957 | 0.10129739 | 0.07615179 | 0.07235857 | 0.07403070 | 0.22283794 | 0.09524294 | 0.14720156 | 0.20403487 | 0.03518823 | 0.06497388 | 0.18487957 | 0.11621896 | 0.09315296 | 0.05459099 | 0.09188172 | 0.13827298 | 0.08324795 | 0.07996696 | 0.09029933 | 0.08023852 | 0.14523997 | 0.13329988 | 0.04673139 | 0.04179929 | 0.11105972 | 0.07457841 | 0.06751061 | 0.06220217 | 0.07461134 | 0.09107229 | 0.09267 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 |
| CD4+_TIMER | 0.12343555 | 0.06182126 | 0.20128329 | 0.09527379 | 0.12396 | 0.07181257 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09