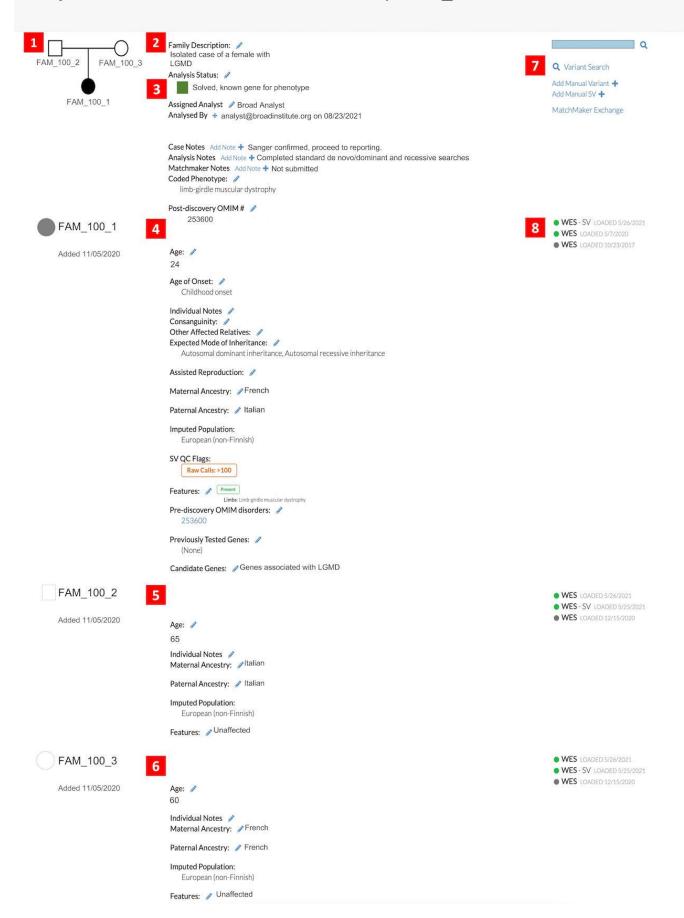
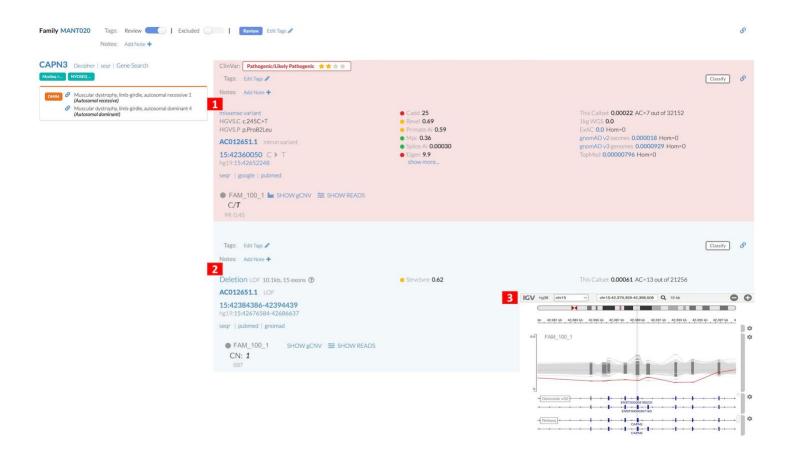
sear

Q

## Project>> Neuromuscular Cohort>> Family: FAM\_100

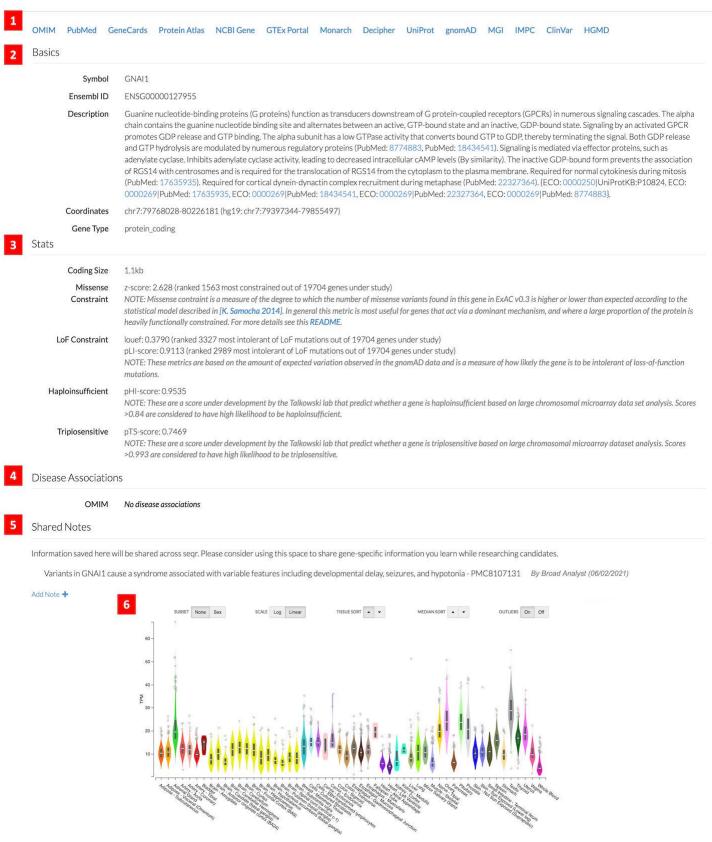


**Supplementary Figure S1:** The *seqr* Family Page displaying FAM\_100 as an example. (1) Family pedigree; (2) general description of the case; (3) analysis and case details entered by the analysis team; (4-6) individual level details including age, ancestry, sample QC information, clinical information using HPO terms; (7) variant search link to begin analysis and an overview of tagged variants on the hover over of the saved variants box, if the case was previously analyzed; (8) type and date of data loaded into *seqr*.

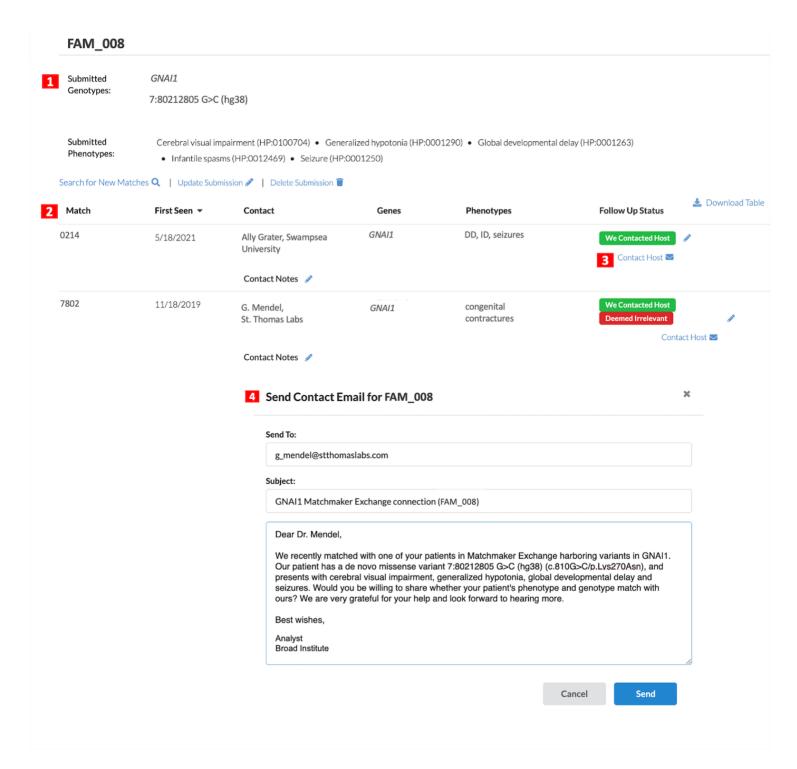


**Supplementary Figure S2:** Variant filtration of SNVs/indels and SVs in tandem. In this example, a recessive restrictive search identified (1) a missense variant and (2) deletion in *CAPN3*. Variants in the raw read data can be viewed using (3) IGV within *seqr*. Both variants were externally validated and reported as the diagnosis for this research participant with limb-girdle muscular dystrophy.

GNAI1 \*



**Supplementary Figure S3:** Gene Page. Includes (1) links to external resources; (2) basic gene information; (3) gene constraint and dosage sensitivity details; (4) gene-disease relationships based on OMIM; (5) user notes shared across *seqr*, (6) GTEx tissue expression data.



**Supplementary Figure S4:** The Matchmaker Exchange node in *seqr*. (1) To make a submission, users select the variant and HPO terms listed in *seqr*, (2) MME matches are listed below with the host's contact details, gene ID, and phenotype, if included in the submission; (3) Automated email feature to communicate with hosts and track the status of matches within *seqr*; (4) sample contact email with variant and phenotype information.



**Supplementary Figure S5:** Allele count for a splice region variant in the gene *TRAPPC4* showing 25 alleles in the CMG callset. A review of the variants revealed three other cases with similar phenotypes that were homozygous for this variant across distinct projects and research groups.