

S3 Methods Table. Ingenuity filter pipeline

<u>Filter</u>	<u>Feature (For Recessive Analysis)</u>	TH
Confidence	Call quality (Phred Score – Base call accuracy>99%)	20.00
Common Variants	1000 Genomes Project	0.01
	Complete Genomics genomes	0.50
	NHLBI ESP exomes	0.01
	EXAC	0.01
Predicted Deleterious	Experimentally pathogenic	✓
	Likely pathogenic	✓
	Uncertain significance	✓
	<u>Associated with gain of function</u>	
	Established in Literature	
	Gene fusion	
	Inferred activating mutation (Ingenuity)	
	Predicted gain of function by BSIFT	
	<u>Associated with loss of function</u>	
	Frameshift, in-frame indel, stop codon change	✓
	Missense	✓
	Likely splice site loss up to 2 bases into intron	✓
	Genetic Analysis	<u>Keep variants only if in at least one case sample:</u>
Homozygous		✓
Compound Heterozygous		✓
Haploinsufficient		
Hemizygous		
<u>Exclude variants if in 2 or more of the control samples</u>		
Filter out haploinsufficient and hemizygous variant		✓
Filter out homozygous and compound heterozygous		✓
Exclude variants in MUC and HLA loci		✓
Present in dbSNP database		
Biological Context	3MC syndrome type 1 (<i>MASP1</i>)	✓
	3MC syndrome type 2 (<i>COLEC11</i>)	✓