

Field	<u>Ontology</u>	url
species	NCBITaxon	https://www.ebi.ac.uk/ols/ontologies/ncbitaxon
ethnicity	HANCESTRO	https://www.ebi.ac.uk/ols/ontologies/hancestro
developmental stage	HsapDv (for human), EFO (for mouse)	https://www.ebi.ac.uk/ols/ontologies/hsapdv
disease	MONDO, PATO (if normal)	https://www.ebi.ac.uk/ols/ontologies/mondo
units of measurement	UO	https://www.ebi.ac.uk/ols/ontologies/uo
collection method	EFO	https://www.ebi.ac.uk/ols/ontologies/efo
enrichment method	EFO	https://www.ebi.ac.uk/ols/ontologies/efo
dissociation method	EFO	https://www.ebi.ac.uk/ols/ontologies/efo
library preparation method	EFO	https://www.ebi.ac.uk/ols/ontologies/efo
sequencing approach	EFO	https://www.ebi.ac.uk/ols/ontologies/efo
organ & organ_part	UBERON	https://www.ebi.ac.uk/ols/ontologies/uberon
cell type	CL	https://www.ebi.ac.uk/ols/ontologies/cl
biological macromolecule	OBI, CHEBI	https://www.ebi.ac.uk/ols/ontologies/obi , https://www.ebi.ac.uk/ols/ontologies/chebi
library pre/amplification	OBI, EFO	https://www.ebi.ac.uk/ols/ontologies/obi , https://www.ebi.ac.uk/ols/ontologies/efo
sequencing instrument	EFO	https://www.ebi.ac.uk/ols/ontologies/efo
file content description	data (EDAM)	https://www.ebi.ac.uk/ols/ontologies/edam
project role	EFO	https://www.ebi.ac.uk/ols/ontologies/efo
mouse strain	EFO	https://www.ebi.ac.uk/ols/ontologies/efo
cell cycle	GO	https://www.ebi.ac.uk/ols/ontologies/go

Name	Size	Platform	Platform version	End bias	Library type	Term ID	Library material	Extraction method	Fragmentation method	Size selection method	lysis method	Size range	Strand specificity	library preparation environment	PolyA selection	PolyA selection method	Library amplification method	Library preamplification method	First strand primer	Second strand primer	Request date			
GTF-SRA-v4-2	GTFSRA	GTFSRA	v4	1	GTFSRA	gtfsra	gtfsra	protein	GTFSRA generation	SPhenix	10x GEM generation	dropsize				TSO								
GTF-SRA-v3-2	GTFSRA	GTFSRA	v3	1	GTFSRA	gtfsra	gtfsra	protein	GTFSRA generation	SPhenix	10x GEM generation	dropsize				PCR	PCR			Read 1N Read 2				
GTF-SRA-v3-1	GTFSRA	GTFSRA	v3	1	'	RNA seq	RNA seq	RNA	10x GEM generation	SPhenix	10x GEM generation	400-6000	second	dropsize	TTSK	poly(A)T	RT-PCR			Read 1N Read 2				
GTF-SRA-v2	GTFSRA	GTFSRA	v2	1	GTFSRA	gtfsra	gtfsra	protein	GTFSRA generation	SPhenix	10x GEM generation	400-6000	first	dropsize	TTSK	poly(A)T	RT-PCR			Read 1N Read 2				
Smart-seq2	Smart-seq2	Smart-seq2		2 full length	RNA seq	gtfsra	gtfsra	RNA	10x GEM generation	SPhenix	Cell lysis buffer- detergent (70%v/v)	200-600	unstranded	plate	TTSK	poly(A)T	PCR	RT-PCR	poly(A)T	TSO	Read 1 N Read 2			
10x'-v3	10x'	10x'	v3	2	'	RNA seq	RNA seq	RNA	10x GEM generation	SPhenix	10x GEM generation	400-6000	first	dropsize	TTSK	poly(A)T	PCR	RT-PCR	poly(A)T	TSO	Read 1 N Read 2			
10x'-v2	10x'	10x'	v2	2	'	RNA seq	RNA seq	RNA	10x GEM generation	SPhenix	10x GEM generation	400-6000	first	dropsize	TTSK	poly(A)T	PCR	RT-PCR	poly(A)T	TSO	Read 1 N Read 2			
ATAC-SCE-v1	ATAC-SCE	ATAC-SCE	v1	1	ATAC-seq	gtfsra	gtfsra	DNA	10x GEM generation	SPhenix	10x GEM generation	400-6000	unstranded	dropsize	TTSK	poly(A)T	PCR	RT-PCR	poly(A)T	TSO	Read 1N Read 2			
ATAC-SCE-v1	ATAC-SCE	ATAC-SCE	v1	1	ATAC-seq	gtfsra	gtfsra	DNA	10x GEM generation	SPhenix	10x GEM generation	400-6000	unstranded	dropsize	TTSK	poly(A)T	PCR	RT-PCR	poly(A)T	TSO	Read 1N Read 2			
read orientation	sequence_element	located_in_read_type	start	end	sequence_element	located_in_read_type	start	end	sequence_element	located_in_read_type	start	end												
GTF-SRA-v3-1	cell barcode	Read 1N	1	16	Read 1N	Read 1N	17	20	Read 1N	Read 1N	18	25												
GTF-SRA-v3-2	cell barcode	Read 3N	1	16	Read 3N	Read 3N	17	20	Read 3N	Read 3N	18	25												
GTF-SRA-v2-1	cell barcode	Read 1	1	16	Read 1	Read 1	17	20	Read 1	Read 1	18	25												
GTF-SRA-v2-2	cell barcode	Read 1	1	16	Read 1	Read 1	17	20	Read 1	Read 1	18	25												
Smart-seq2	Smart-seq2	Read 1	1	16	Read 1	Read 1	17	20	Read 1	Read 1	18	25												
10x'-v2	10x'	Read 1	1	16	Read 1	Read 1	17	20	Read 1	Read 1	18	25												
10x'-v3	10x'	Read 1	1	16	Read 1	Read 1	17	20	Read 1	Read 1	18	25												
ATAC-SCE-v1	ATAC-SCE	Read 1	1	16	Read 1	Read 1	17	20	Read 1	Read 1	18	25												
ATAC-SCE-v1	ATAC-SCE	Read 1	1	16	Read 1	Read 1	17	20	Read 1	Read 1	18	25												
sequence_file_selection	read_type	demultiplexed_type	sequence_elements	read_length	read_length_specification	required	read_type	demultiplexed_type	sequence_elements	read_length	read_length_specification	required	read_type	demultiplexed_type	sequence_elements	read_length	read_length_specification	required	read_type	demultiplexed_type	sequence_elements	read_length	read_length_specification	required
GTF-SRA-v3-1	Read 1N	R1	[int]barcode[UMI]	26	minimum	True	Read 2N	R2	[int]barcode[UMI]	25	minimum	True	2' index	11	[sample index]	8 exact	False							
GTF-SRA-v3-2	Read 1N	R1	[int]barcode[UMI]	26	minimum	True	Read 2N	R2	[int]barcode[UMI]	25	minimum	True	2' index	11	[sample index]	8 exact	False							
GTF-SRA-v2-1	Read 1	R1	[int]barcode[UMI]	26	minimum	True	Read 2	R2	[int]barcode[UMI]	25	minimum	True	2' index	11	[sample index]	8 exact	False							
GTF-SRA-v2-2	Read 1	R1	[int]barcode[UMI]	26	minimum	True	Read 2	R2	[int]barcode[UMI]	25	minimum	True	2' index	11	[sample index]	8 exact	False							
Smart-seq2	Smart-seq2	Read 1	R1	[int]barcode[UMI]	26	minimum	True	Read 2	R2	[int]barcode[UMI]	25	minimum	True	2' index	11	[sample index]	8 exact	False						
10x'-v2	10x'	Read 1	R1	[int]barcode[UMI]	26	minimum	True	Read 2	R2	[int]barcode[UMI]	25	minimum	True	2' index	11	[sample index]	8 exact	False						
10x'-v3	10x'	Read 1	R1	[int]barcode[UMI]	26	minimum	True	Read 2	R2	[int]barcode[UMI]	25	minimum	True	2' index	11	[sample index]	8 exact	False						
ATAC-SCE-v1	ATAC-SCE	Read 1	R1	[int]barcode[UMI]	26	minimum	True	Read 2	R2	[int]barcode[UMI]	25	minimum	True	2' index	11	[sample index]	8 exact	False						
ATAC-SCE-v1	ATAC-SCE	Read 1	R1	[int]barcode[UMI]	26	minimum	True	Read 2	R2	[int]barcode[UMI]	25	minimum	True	2' index	11	[sample index]	8 exact	False						